JVC

SERVICE MANUAL

MODEL
KD-S201A/B/C/E/J/U

STEREO CASSETTE DECK

No. 4170
April 1978

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Specifications

Type	Stereo cassette deck
Track system	4-track, 2-channel
Cassettes	C-30, C-60, C-90 (Use of long play tape such as C-120 is not recommended.)
Frequency response	(Surpasses DIN 45 500)
SA/CrO_2 *1	20—18,000 Hz (Nominal) 30—16,000 Hz (Typical)
SF/Normal *2	20—17,000 Hz (Nominal) 40—15,000 Hz (Typical)
Fe-Cr *3	20—20,000 Hz (Nominal) 30—18,000 Hz (Typical)
S/N ratio	56 dB (from peak level, weighted) The S/N is improved by 5 dB at 1 kHz and by 10 dB above 5 kHz with ANRS on. 60 dB with ANRS (DIN 45 500, weighted)
Effect of Super ANRS	(normal tape)
Improvement of S/N	the same as with ANRS
Improvement of linearity	0 VU recording; 6 dB at 10 kHz +5 VU recording; 12 dB at 10 kHz
Improvement of distortion	0 VU recording; 3% less at 10 kHz +5 VU recording; 3% or less at 10 kHz
Wow and flutter	0.06% (WRMS) 0.2% (DIN 45 500)
Crosstalk	65 dB
Harmonic distortion	1.3% (normal tape)
Bias	AC bias (95 kHz)
Erasure	AC erasure (95 kHz)
Heads	2 heads (SEN ALLOY head for recording/playback and 2-gap ferrite head for erasure)
Motor	FG servo DC motor x 1
Tape speed	4.8 cm/sec.
Recording time	Turnaround 1 hour (2 x 30 minutes with C-60 cassette)
Fast-forward time	80 sec, with C-60 cassette
Rewind time	80 sec, with C-60 cassette

Equalizer	Playback equalizer time constants SF/NORMAL, 3180 μs/120 μs SA/CrO_2; 3180 μs/70 μs
Semiconductors	10 ICs, 14 transistors, 38 diodes, 1 SCR
Input terminals	Mic jack x 2 Max. sensitivity; 0.2 mV Matching impedance; 600 Ω — 10 kΩ Input jack x 2 Min. input level; 80 mV Input impedance; 100 kΩ
Output terminals	Output jack x 2 Output level; 0—0.5 V Output impedance; 3 kΩ Matching impedance; 50 kΩ or more Headphone jack x 1, 0—0.6 mW Matching impedance; 8Ω — 1 kΩ
DIN socket	Min. input level; 0.1 mV/kΩ Input impedance; 10 kΩ Output level; 0—0.5 V Output impedance; 3 kΩ Matching impedance; 50 kΩ or more
Power requirement	AC 120 V, 60 Hz (KD-S201C/J) AC 240/220/120 V, 50/60 Hz (KD-S201A/B/E) AC 240/220/120/100 V, 50/60 Hz (KD-S201U)
Power consumption	11 W
Dimensions	19-11/16" (500 mm) W 6-9/16" (166 mm) H 14-3/16" (360 mm) D
Weight	9.3 kg (20.5 lbs.)

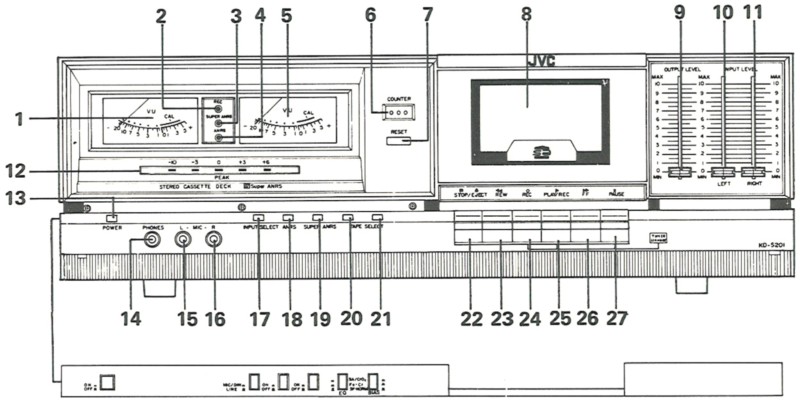
Note: *1 ..... TDK SA or Equivalent
*2 ..... MAXELL UD or Equivalent
*3 ..... SONY C-60 Duad or Equivalent

Design and specifications are subject to change without notice.

Features

- Component type veritcal open-view cassette deck
- Multi-Peak Level Indicator
- SEN-ALLOY head
- IC-constructed ANRS (Automatic Noise Reduction System) plus Super ANRS
- Soft feeling geared/oil-damped cassette holder
- Independent 3-step bias and equalization switches
- Output level control
- Timer recording and playback available
- Tape amount check light
- Newly developed high-performance tape transport mechanism boasting a low wow and flutter of 0.06% WRMS
- Styling matching the JR-S201 series stereo receivers for an integrated image of the whole system
- Electrically operating full auto-stop mechanism for all operation modes
- Large back-lit VU meters

Controls and Connections


1
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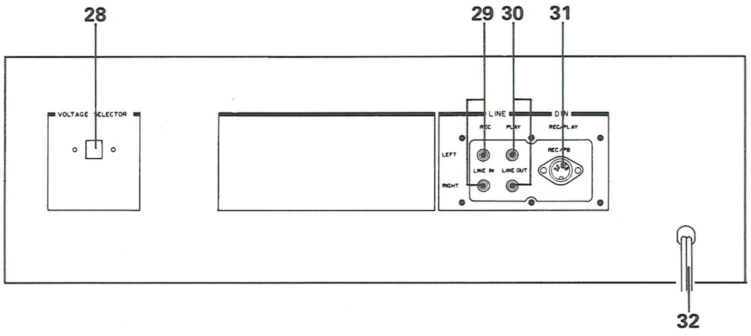
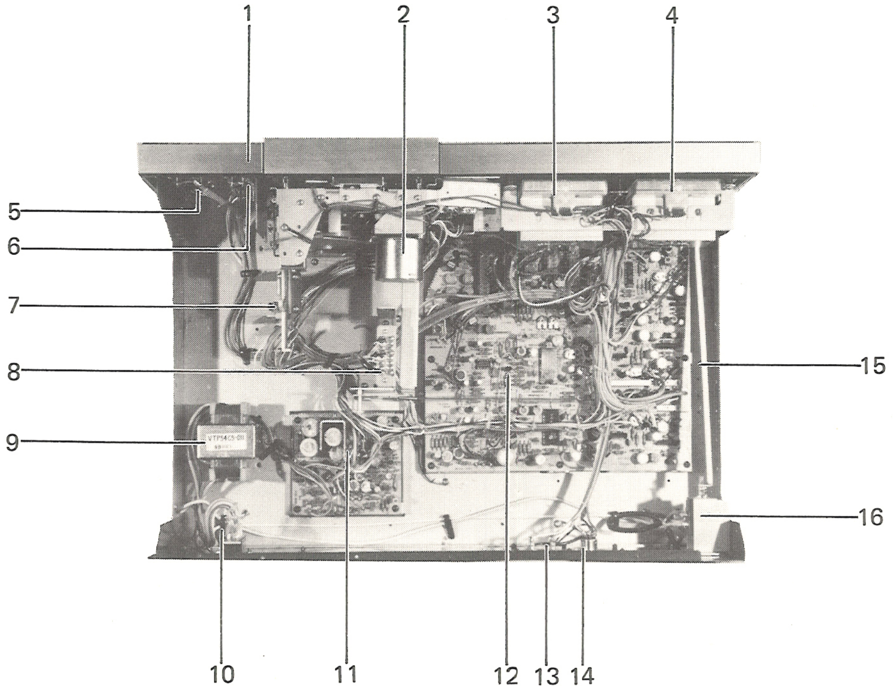
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
VU
CAL
REC
SUPER ANRS
ANRS
COUNTER
RESET
JVC
OUTPUT LEVEL
INPUT LEVEL
MAX
MIN
LEFT
RIGHT
PEAK
STEREO CASSETTE DECK
Super ANRS
STOP/EJECT
REW
REC
PLAY/REC
FF
PAUSE
POWER
PHONES
L - MIC - R
INPUT SELECT
ANRS
SUPER ANRS
TAPE SELECT
KD-S201
ON
OFF
MIC/DIN
LINE
EQ
BIAS


28
29
30
31
32
VOLTAGE SELECTOR
LINE
DIN
REC
PLAY
REC/PLAY
LEFT
RIGHT
LINE IN
LINE OUT
REC/PB

1. VU meter (Left channel)
2. Recording indicator (REC)
3. Super ANRS indicator
4. ANRS indicator
5. VU meter (Right channel)
6. Tape counter
7. Counter RESET button
8. Cassette door
9. OUTPUT LEVEL control
10. INPUT LEVEL control (Left channel)
11. INPUT LEVEL control (Right channel)
12. Multi-point peak level indicators
13. POWER switch
14. PHONES jack
15. Microphone jack (Left channel)
16. Microphone jack (Right channel)
17. INPUT SELECT switch
18. ANRS switch
19. Super ANRS switch
20. EQ switch }
21. BIAS switch } Tape select switches
22. STOP/EJECT lever (■/▲)
23. REWIND lever (◀◀)
24. REC lever (○)
25. PLAY/REC lever (▶)
26. FF lever (▶▶)
27. PAUSE lever (II)
28. Voltage select switch (KD-S201A/B/E/U)
29. LINE IN (REC) terminals
30. LINE OUT (PLAY) terminals
31. REC/PLAY socket
32. Power cord

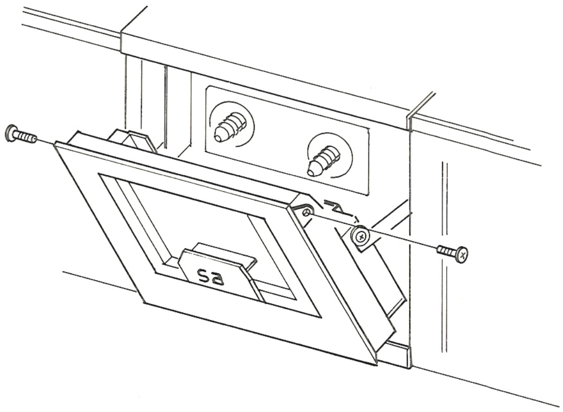
Main Parts Location



1. Front panel ass'y
2. Capstan motor
3. Right channel level meter
4. Left channel level meter
5. Input level controls (slide VR)
6. Output level control (slide VR)
7. Geared and oil-damped ass'y
8. Head wires terminal board
9. Power transformer
10. Voltage select switch
11. Power supply P.W. board ass'y
12. Main amp. P.W. board ass'y
13. Pin terminals
14. DIN (REC/PB) socket
15. Power switch bar
16. Power switch

Removal of the transparent cover

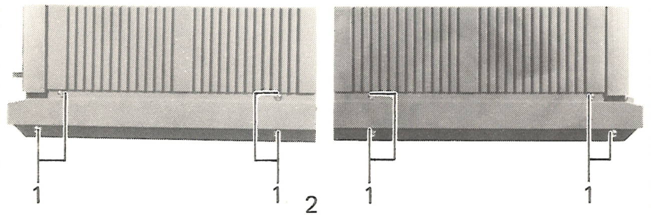
1. Depress the EJECT lever to open the cassette door
2. To remove the transparent cover, remove these tw screws.

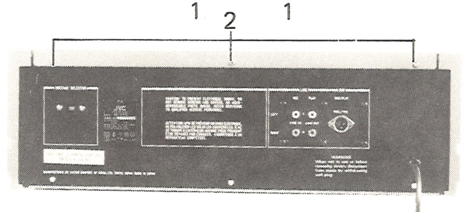


Removal of the Main Parts

Observe care in handling the parts since the parts are small in size and the distances between them are short due to a deck design aimed mainly at compactness and high performance.

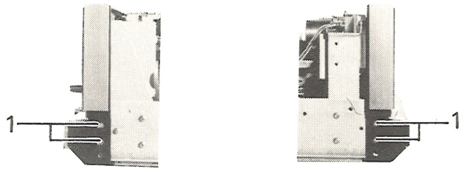
Removal of the top cover assembly

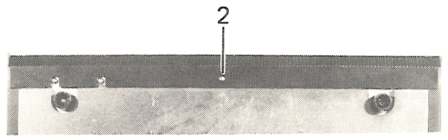




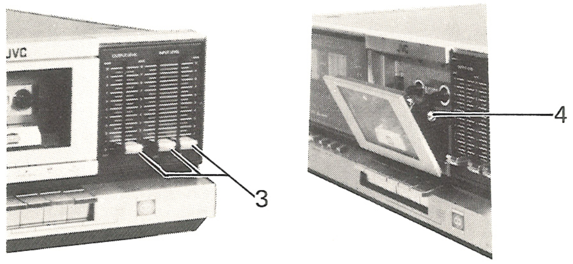
1. Remove the 8 screws on the side panels. (4 screws on each)
2. Remove the 3 screws on the rear panel.
3. Pull the top cover ass'y backward. (side panels and metal cover)

Removal of the front panel assembly

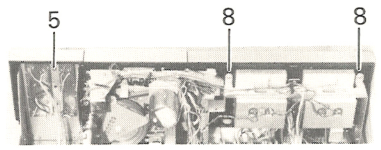


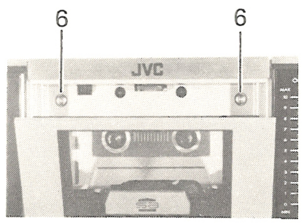


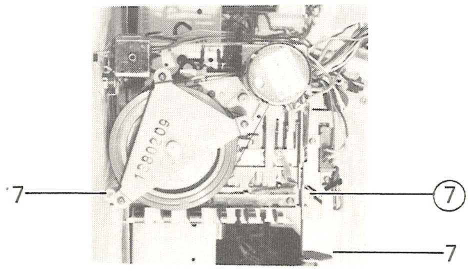
1. Remove the 4 screws on its side positions. (2 screws on each)
2. Remove a screw on its bottom position.



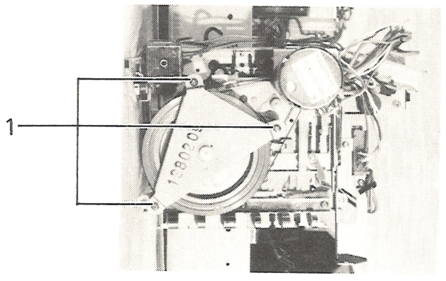
3. Remove the 3 knobs of output and input level controls.
4. Depress the EJECT lever to open the cassette holder assembly, and remove the screw and collar.







5. Remove a screw on the volume bracket.
6. Remove the 2 screws in the cassette holder assembly for fastening the mechanical ass'y.
7. Remove the 3 screws fastening the mechanical ass'y.
   If you are difficult to remove ⑦ screw, remove the 2 screws and a wire holder fastening the geared and oil damping bracket at first.
8. Removal the 2 screws fastening the meter bracket.
9. Pull the front panel assembly forward.

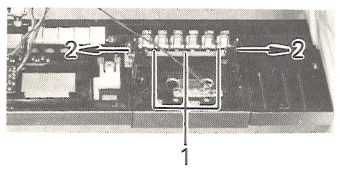


Removal of the flywheel assembly

To remove the flywheel assembly by pulling out, remove the flywheel bracket by removing the 3 screws and the capstan belt.

Note: 1) When replacing the flywheel, be sure to employ washers and springs.
2) Be careful not to soil the cpstan belt.

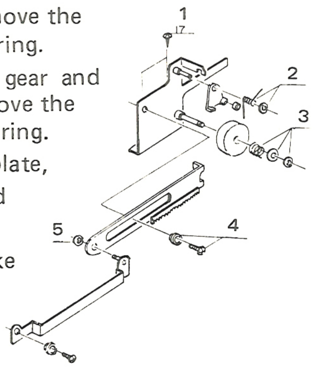
Removal of the cassette holder assembly.



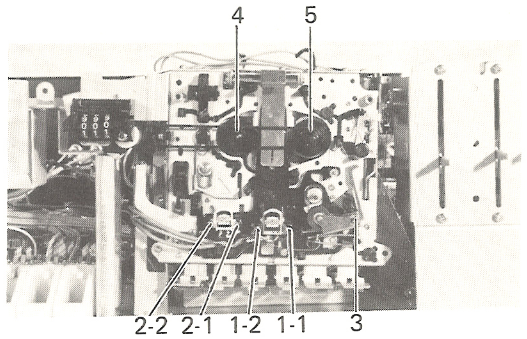
1. Remove the 3 screws fastening the cassette holder bracket.
2. To remove the cassette holder, pull the cassette holder arms as arrow mark directions.
3. Pull of the cassette holder from front panel assembly forward.

Removal of the door brake and its related parts

1. To remove the gear frame, remove the 2 screws.
2. To remove the brake arm and rubber tire (rubber retainer), remove the E ring and torsion spring.
3. To remove the spur gear and the brake drum, remove the E ring, washer and spring.
4. To remove the rack plate, remove the screw and the collar.
5. To remove the brake lever assembly, remove the E ring.



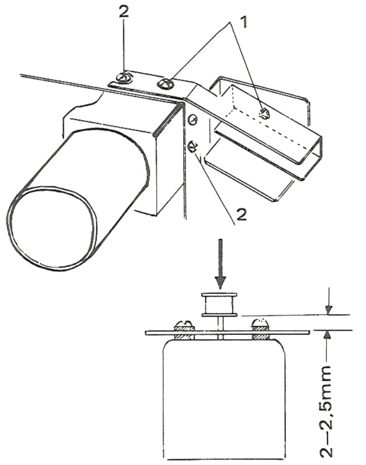
Removal of the mechanical parts

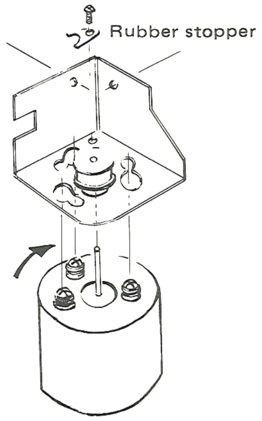


1. To remove the record/playback head, remove the screws (1-1, 1-2 for adjustment).
2. To remove the erase head, remove the screws (2-1, 2-2 for adjustment).
3. To remove the pinch roller arm assembly, remove the E ring.
4. To remove the supply reel disc, pull out the reel stopper.
5. To remove the take-up reel disc, pull out the reel stopper and remove the counter belt.

Note: 1) Remove the reel stoppers with a piece of sheet metal inserted between the reel disc and the stopper.
2) Be careful not to stain the counter belt.

Removal of the motor





1. Remove the 2 screws (1) fastening the bracket for the reed switch P.W. board.
2. Remove the capstan belt.
3. Remove the 2 screws (2) fastening the motor bracket.
4. Pull off the motor pulley.
   * Be careful to pull off the motor pulley the same direction as motor shaft. (Don't deflect its direction.)
5. Remove a screw fastening the rubber stopper.
6. To remove the motor, turn it as arrow mark direction.

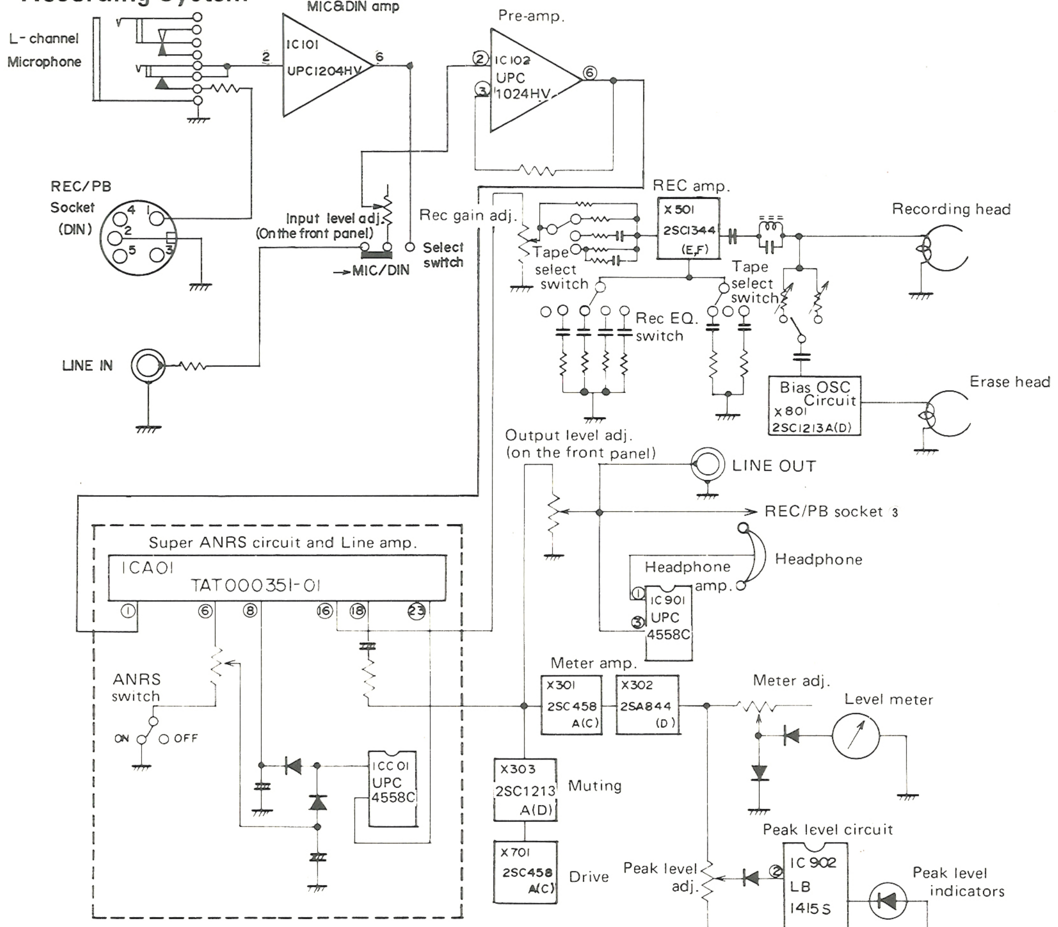
Replacing of the motor.

1. Assemble the motor screws and cushion rubbers as same method of before removing the motor, and fix it to the motor bracket.
2. Press the motor pulley as in the following illustration.

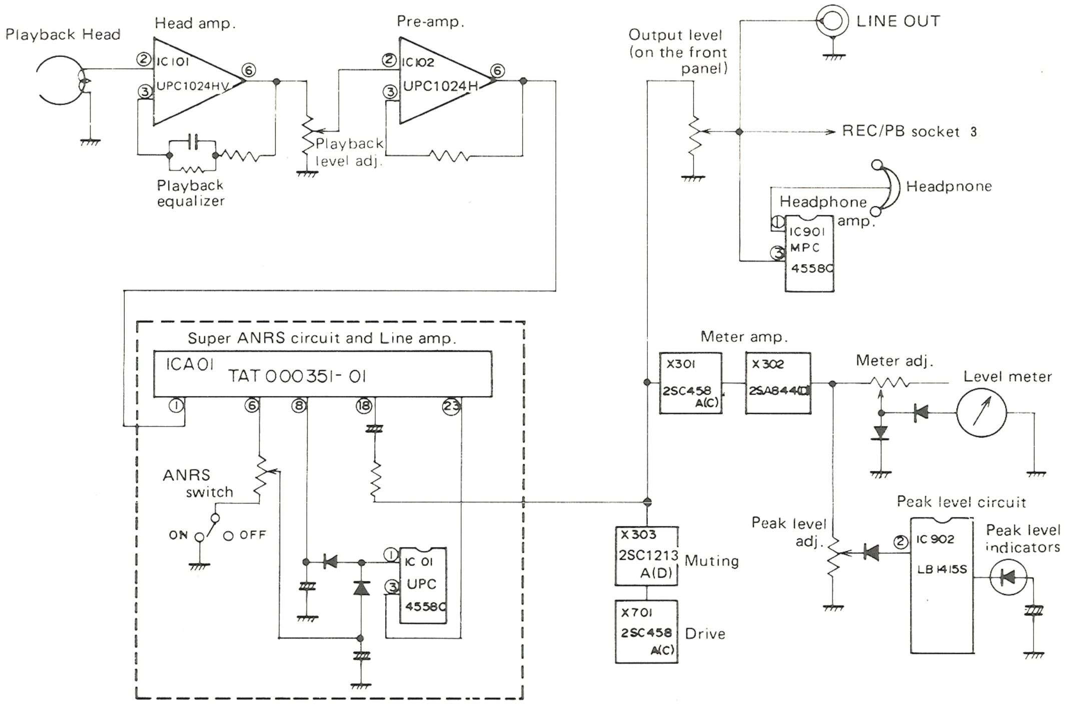
Note: When replacing the motor, check next section.
1) Replace the motor correct position? (don't deflect the motor.)
2) Runs the capstan belt in the center of the motor pulley?
3) Runs the capstan belt in the center of the flywheel?

Block Diagram

Recording System


MIC&DIN amp
Pre-amp.
L-channel Microphone
IC101 UPC1204HV
IC102 UPC 1024HV
REC/PB Socket (DIN)
Input level adj. (On the front panel)
MIC/DIN
Select switch
Rec gain adj.
Tape select switch
REC amp.
X501 2SC1344 (E,F)
Tape select switch
Recording head
Rec EQ. switch
LINE IN
Bias OSC Circuit X801 2SC1213A(D)
Erase head
Output level adj. (on the front panel)
LINE OUT
REC/PB socket 3
Super ANRS circuit and Line amp.
ICA01 TAT000351-01
Headphone amp.
Headphone
IC901 UPC 4558C
ANRS switch
ON OFF
ICC01 UPC 4558C
Meter amp.
X301 2SC458 A(C)
X302 2SA844 (D)
Meter adj.
Level meter
X303 2SC1213 A(D)
Muting
Peak level circuit
X701 2SC458 A(C)
Drive
Peak level adj.
IC902 LB 1415S
Peak level indicators

Playback System


Playback Head
Head amp.
IC101 UPC1024HV
Pre-amp.
IC102 UPC1024H
Playback equalizer
Playback level adj.
Output level (on the front panel)
LINE OUT
REC/PB socket 3
Headphone amp.
Headphone
IC901 MPC 4558C
Super ANRS circuit and Line amp.
ICA01 TAT000351-01
Meter amp.
X301 2SC458 A(C)
X302 2SA844D
Meter adj.
Level meter
ANRS switch
ON OFF
IC01 UPC 4558C
X303 2SC1213 A(D)
Muting
Peak level circuit
Peak level adj.
IC902 LB1415S
Peak level indicators
X701 2SC458 A(C)
Drive

[Variable resistor]

VR101,201	QVZ6103-003 50 kΩ (A)	Variable resistor (Input level adj. .... on front panel)
VR102,202	QVP8A0B-024	Semi fixed resistor (Playback level adj.)
VR301,401	QVP8A0B-023	Semi fixed resistor (Meter level adj.)
VR302,402	QVS9C7A-014A 10 kΩ (A)	Variable resistor (Output level .... on front panel)
VR303,403	QVP8A0B-053	Semi fixed resistor (Peak level adj.)
VR501,601	QVP8A0B-024	Semi fixed resistor (Rec gain adj.)
VR502,602	QVP4A0B-224	Semi fixed resistor (Bias adj. – normal)
VR503,603	QVP4A0B-104	Semi fixed resistor (Bias adj. – chrome)
VRA01,B01	QVP8A0B-023	Semi fixed resistor (ANRS DC bias adj.)

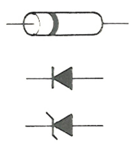
[Switches]

	QSP2111-011	KD-S201A/B	Power switch
	QSP2111-011BS	KD-S201B	
	QSP1110-222	KD-S201C/J	
	QSP1110-221	KD-S201U	
S1, 2	QSS9201-005A	Slide switch (for REC & PB)	
S3	QSL2309-001	Lever switch (for ANRS)	
S4	QSL8309-001	Lever switch (for Equalizer)	
S5	QSL4309-001	Lever switch (for Bias)	
S7	QSP0250-102	Push switch (for DIN)	
	TDS271409-01	Reed switch	
	T30483-00C	Switch ass'y (for Muting)	
	V31162-00A	Leaf switch (for Motor)	
	VSH1102-001	Switch ass'y (for Pause)	
	QSS2325-006	KD-S201A/E	Voltage select switch
	QSS2325-006BS	KD-S201B	
	QSR0084-001	KD-S201U	

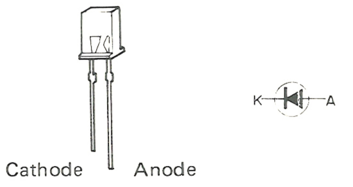
[Diodes]

DA01,B01,A02 B02 D301,302,401, 402	1N34A	Ge. Diode	Main amp P.W. board
DA03,B03	1S2076	Si. Diode	
D303,403,901	1S2075K-23	Si. Diode	
D701	RD6-8E(C)	Zener Diode	
D951–955	TLR205	LED	Peak level indicator
D956	TLR102	LED	REC indicator
D957, 958	TLG102	LED	ANRS, Super ANRS indicator
DE01,E02	1N34A	Ge. Diode	Power Supply P.W. board
DE03,E04,E05	1S2076	Si. Diode	
DE06,F01,F02 F03,F04,F06 F07	10E1	Si. Diode	
DE07	RD18E(B)	Zener Diode	
DF05	RD22E(B)	Zener Diode	
DE08	10E1		for Solenoid

Diode



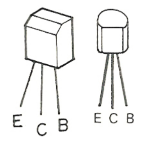
GL-9PR2
GL-9PG2


Cathode
Anode
K
A

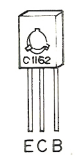
[Transistors]

X301,401	2SC458A(C)	Si. Transistor	Main amp P.W. board
X302,402	2SA844D	″	
X701	2SC458A(C)	″	
X501,601	2SC1344EF	″	
X801 X303,403	2SC1213A(D)	″ ″	
XE01	2SA844D	Si. transistor	Power Supply P.W. board
XE02,E03	2SC458A(C)		
SCR1	2SF656	SCR	
XF01	2SC1162WT(B,C)	Si. transistor	

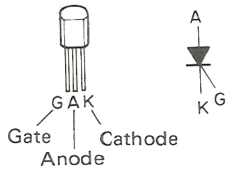
Transistor



2SC1162



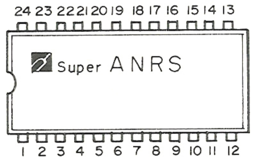
2SF656


G A K
Gate
Cathode
Anode
A
K G

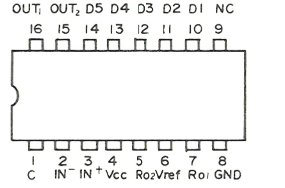
[ICs]

IC101,201	UPC1024HV	(for Head Amp)
IC102,202	UPC1024H	(for Pre-Amp)
ICA01,B01	TAT000351-01	(for Super ANRS & Line amp)
ICC01	UPC4558C	(for ANRS Control amp)
IC901	UPC4558C	(for Headphone amp)
IC902	LB1415S	(for Peak level circuit)

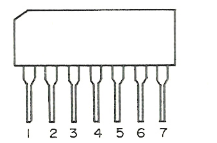
TAT000351-01 (Top-View)


24 23 22 21 20 19 18 17 16 15 14 13
Super ANRS
1 2 3 4 5 6 7 8 9 10 11 12

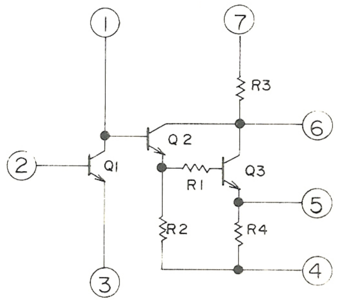
LB1415 (Top-View)


OUT₁ OUT₂ D5 D4 D3 D2 D1 NC
16 15 14 13 12 11 10 9
1 2 3 4 5 6 7 8
C IN⁻ IN⁺ Vcc Ro₂Vref Ro₁ GND

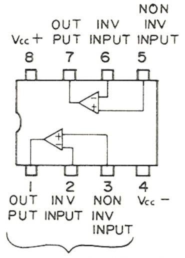
– UPC1024H –



Equivalent Circuit

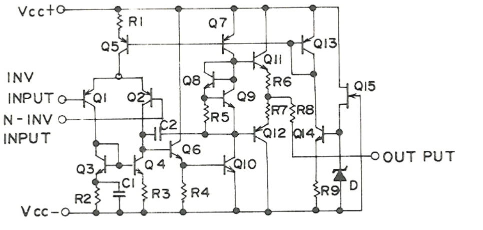

1
7
R3
Q2
6
2
Q1
R1
Q3
5
R2
R4
4
3

– UPC4558C –
AMPLIFIER No. 2

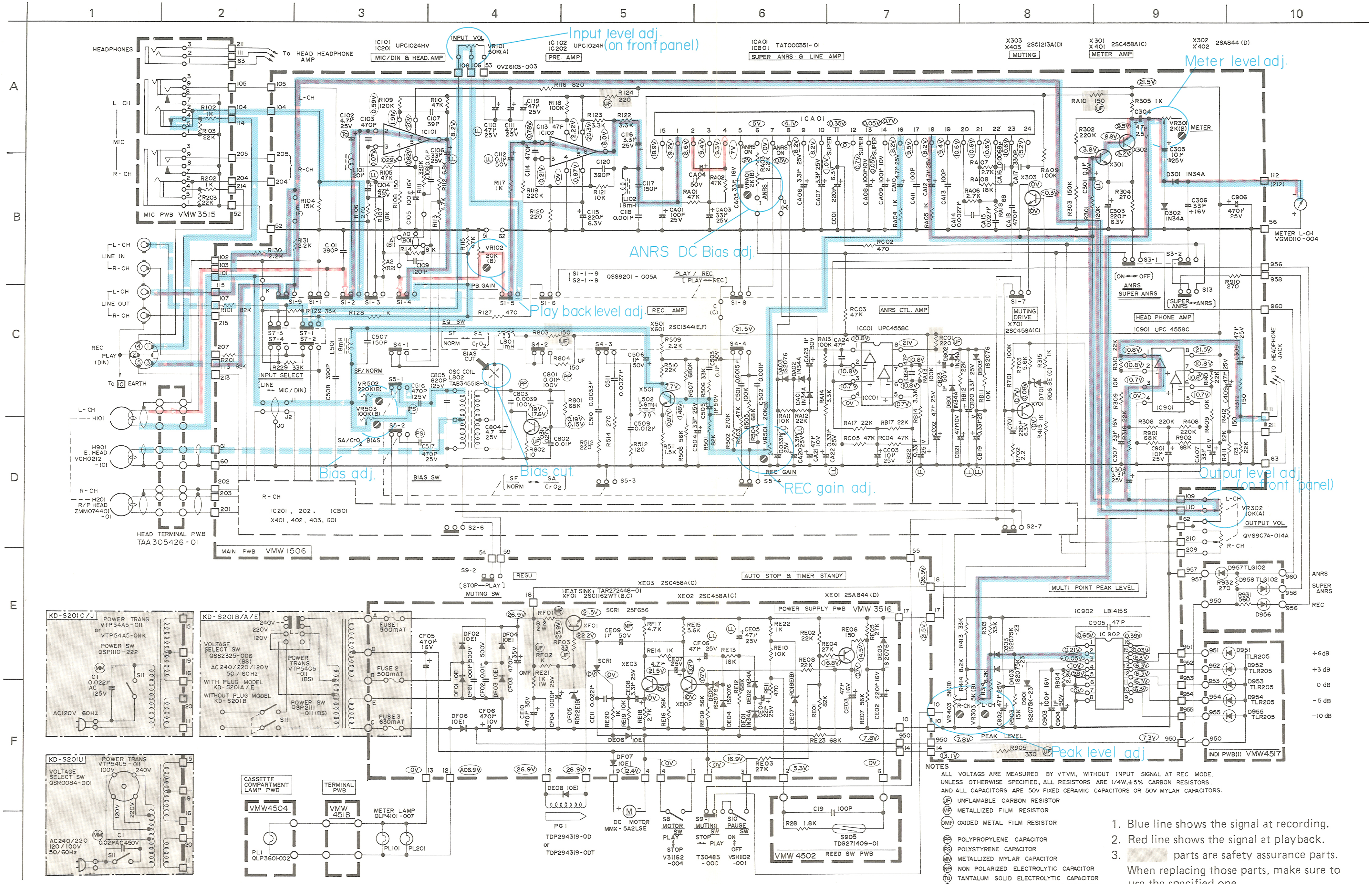

Vcc+
OUT PUT
INV INPUT
NON INV INPUT
8 7 6 5
1 2 3 4
OUT PUT
INV INPUT
NON INV INPUT
Vcc –

AMPLIFIER No. 1

Equivalent Circuit (½)


Vcc+
R1
Q7
Q5
Q13
Q11
INV INPUT
Q1
Q2
Q8
Q9
R6
R7
R8
Q15
ON-INV INPUT
C2
R5
Q12
Q14
Q3
Q6
Q4
Q10
OUT PUT
C1
R2
R3
R4
R9
D
Vcc–

Standard Schematic Diagram


1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
HEADPHONES
To HEAD HEADPHONE AMP
IC101 IC201 UPC1024HV
MIC/DIN & HEAD. AMP
INPUT VOL
VR101 50K(A)
QVZ6103-003
IC102 IC202 UPC1024H
PRE. AMP
Input level adj. (on front panel)
ICA01 ICB01 TAT00351-01
SUPER ANRS & LINE AMP
X303 X403 2SC1213A(D)
MUTING
X301 X401 2SC458A(C)
METER AMP
X302 X402 2SA844 (D)
Meter level adj.
MIC PWB VMW3515
LINE IN
LINE OUT
REC PLAY (DIN)
To EARTH
H101
H901 E. HEAD VGH0212-101
H201 R/P HEAD ZMM074401-01
HEAD TERMINAL P.W.B TAA305426-01
ANRS DC Bias adj.
PLAY / REC
QSS9201-005A
Play back level adj.
REC. AMP
INPUT SELECT
EQ SW
OSC COIL L802 TAB34558-01
Bias adj.
Bias cut
BIAS SW
REC GAIN
REC gain adj.
ANRS CTL. AMP
ICC01 UPC4558C
MUTING DRIVE
HEAD PHONE AMP
IC901 UPC 4558C
METER L-CH VGM0110-004
Output level adj. (on front panel)
VR302 10K(A)
OUTPUT VOL
QVS9C7A-014A
MAIN PWB VMW1506
IC201, 202, ICB01
X401, 402, 403, 601
REGU
AUTO STOP & TIMER STANDY
MULTI POINT PEAK LEVEL
POWER SUPPLY PWB VMW3516
HEAT SINK: TAR272448-01
IC902 LB1415S
PEAK LEVEL
Peak level adj.
INDI PWB(I) VMW4517
ANRS
SUPER ANRS
REC
+6dB
+3 dB
0 dB
-5 dB
-10 dB
KD-S201C/J
KD-S201B/A/E
KD-S201U
POWER TRANS VTP54A5-011 or VTP54A5-011K
POWER SW QSP1110-222
VOLTAGE SELECT SW QSS2325-006 (BS)
AC 240/220/120V 50/60Hz
WITH PLUG MODEL KD-S201A/E
WITHOUT PLUG MODEL KD-S201B
FUSE 1 500mAT
FUSE 2 500mAT
FUSE 3 630mAT
AC120V 60Hz
POWER TRANS VTP54U5-011
VOLTAGE SELECT SW QSR0084-001
AC240/220/120/100V 50/60Hz
CASSETTE COMPARTMENT LAMP PWB
VMW4504
PL1 QLP3601-002
TERMINAL PWB
VMW4518
METER LAMP QLP4101-007
PG1 TDP29431S-0D or TDP29431S-0DT
DC MOTOR MMX-5A2LSE
S8 MOTOR SW V31162-004
S9 MUTING SW T30483-00C
S10 PAUSE SW VSH1102-001
REED SW PWB VMW4502
S905 TDS271409-01

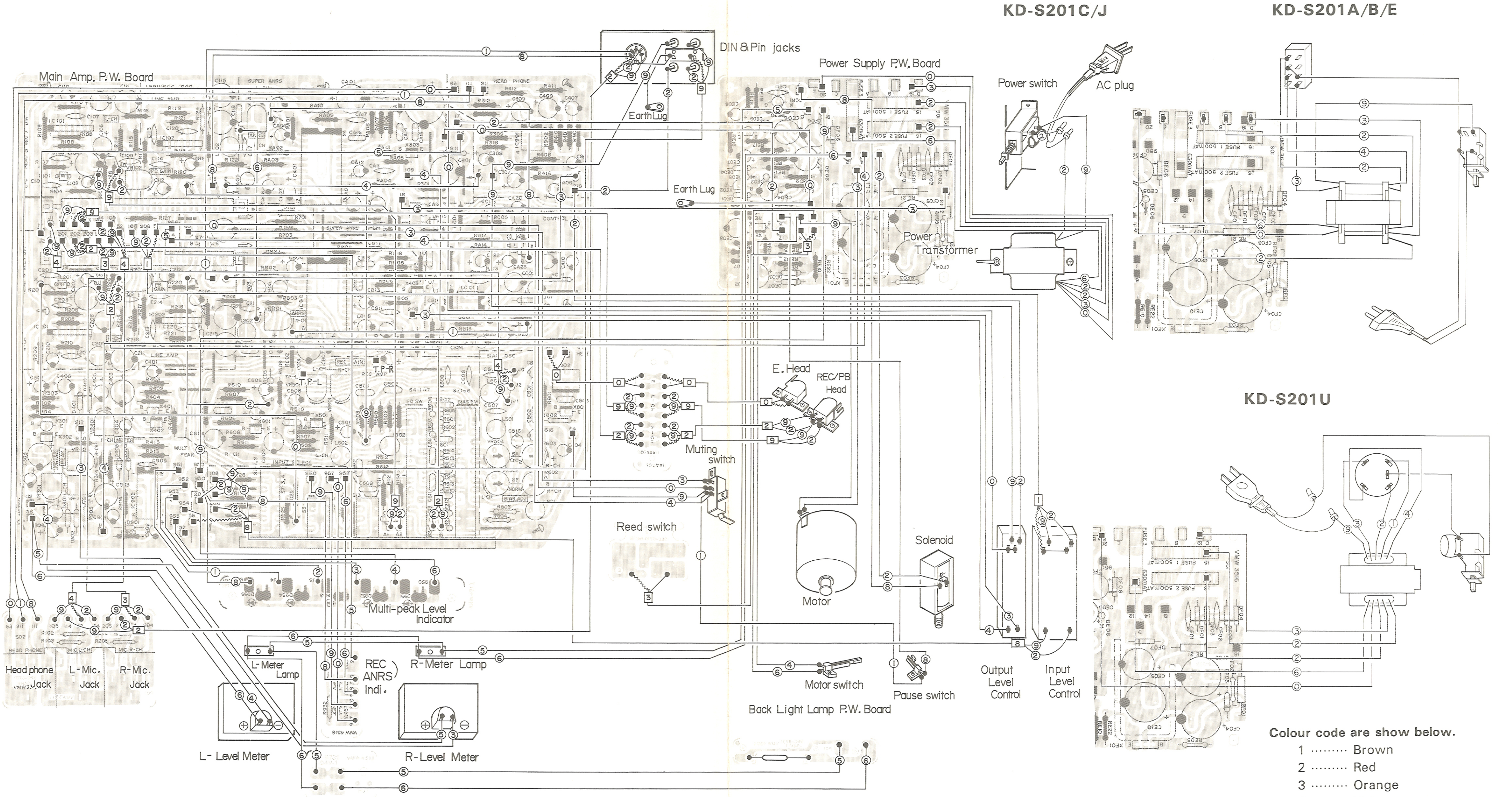
NOTES

ALL VOLTAGS ARE MEASURED BY VTVM, WITHOUT INPUT SIGNAL AT REC MODE.
UNLESS OTHERWISE SPECIFIED, ALL RESISTORS ARE 1/4W,±5% CARBON RESISTORS.
AND ALL CAPACITORS ARE 50V FIXED CERAMIC CAPACITORS OR 50V MYLAR CAPACITORS.

(UF)	UNFLAMABLE CARBON RESISTOR
(MF)	METALLIZED FILM RESISTOR
(OMF)	OXIDED METAL FILM RESISTOR
(PP)	POLYPROPYLENE CAPACITOR
(PS)	POLYSTYRENE CAPACITOR
(MM)	METALLIZED MYLAR CAPACITOR
(NP)	NON POLARIZED ELECTROLYTIC CAPACITOR
(Ta)	TANTALUM SOLID ELECTROLYTIC CAPACITOR
(LL)	+20% LOW LEAK CURRENT ELECTROLYTIC CAPACITOR

1. Blue line shows the signal at recording.
2. Red line shows the signal at playback.
3. ▨ parts are safety assurance parts.
   When replacing those parts, make sure to use the specified one.

Wiring of KD-S201


KD-S201C/J
KD-S201A/B/E
KD-S201U
Main Amp. P.W. Board
DIN & Pin jacks
Earth Lug
Earth Lug
Power Supply P.W. Board
Power switch
AC plug
Power Transformer
E. Head
REC/PB Head
Muting switch
Reed switch
Solenoid
Motor
Multi-peak Level Indicator
Head phone Jack
L-Mic. Jack
R-Mic. Jack
L-Meter Lamp
R-Meter Lamp
REC ANRS Indi.
L-Level Meter
R-Level Meter
Motor switch
Pause switch
Back Light Lamp P.W. Board
Output Level Control
Input Level Control

Colour code are show below.

1	Brown
2	Red
3	Orange
4	Yellow
5	Green
6	Blue
7	Violet
8	Grey
9	White
0	Black

Main Adjustments

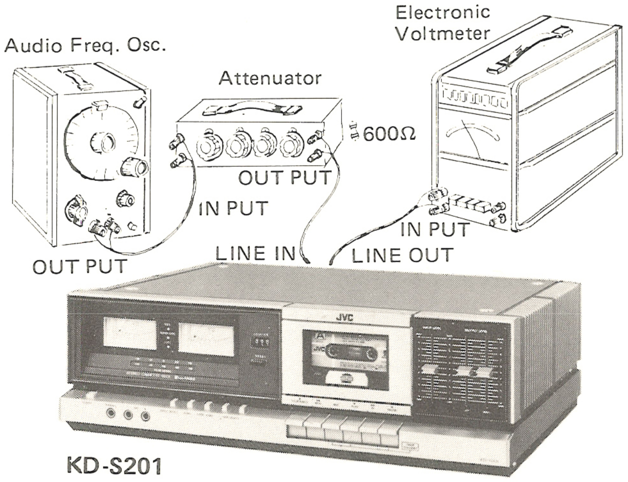
[I] Equipment and measuring instruments used for adjustment.

1. Electrical adjustment

1) Electronic voltmeter
2) Audio frequency oscillator
   (range; 50—20kHz and output 0dB with impedance 600Ω)
3) Attenuator
4) Standard tapes for REC/PB
   Maxell UD – SF tape } or equivalent
   TKD SA – chrome tape }
5) Reference tapes for playback (JVC Test Tape)
   VTT-658 (for head azimuth adj.)
   VTT-656 (for motor speed, wow flutter adj.)
   VTT-664 (for Reference level 1kHz)
   VTT-675N (for playback frequency response)
6) Resistors
   100Ω (for measurement of the bias current)
   600Ω (for attenuator matching)

2. Mechanical adjustment

1) Gauge for checking the head position.
2) Torque gauge
3) Blank tape (C-120) for tape running checker.



KD-S201

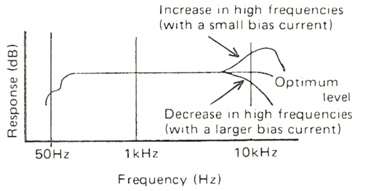
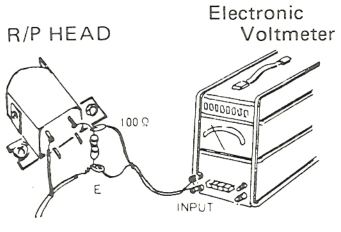
[II] Electrical circuit adjustment procedure

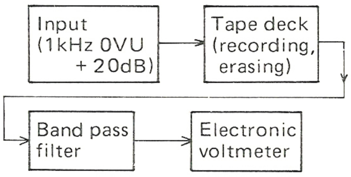
In the steps marked by an asterisk (*), adjustment should be performed, however, only checking is sufficient with steps other than those.
Adjustment should be performed in the order of steps 1, 2, 3.

Playback system

Step	Item	Adjustment	Adjusting point	Standard value	Remarks
* 1	Adjusting VU meter sensitivity	1. Set the cassette deck to its recording mode. 2. Apply a 1kHz, approx. -10dBs signal to the LINE IN terminals. 3. Adjust the recording level controls until the signal is available at -4dBs at the LINE OUT terminals. 4. Adjust VR301 and VR401 until the VU meters deflect to 0.	VR301,401 (METER)	0VU	Perform the adjustment when the parts are replaced.
* 2	Adjusting playback level	1. Play back the VTT-664 test tape (1 kHz) with the equalizer switch set to the NORMAL position. 2. Adjust VR102 and VR202 until the VU meters deflect to 0. (The level difference between left and right channels should be less than 1dB.)	VR102,202 (PB. LEVEL)	0VU	1. This adjustment becomes necessary when a change in playback level results (for example, due to head replacement). 2. Perform this adjustment with the ANRS switch set to OFF.
3	Checking the playback frequency response	Play back the VTT-675N test tape. Check to see if the outputs at the frequencies conform to the standard levels.		Standard frequency; 1kHz With a normal tape +2dB±3dB at 63Hz 0±3dB at 10kHz With a chrome tape +2dB±3dB at 63Hz -4dB±3dB at 10kHz	The 1kHz output with the equalizer switch set to NORMAL refers to chrome tape.

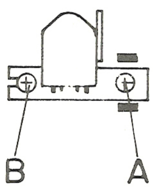
Recording system

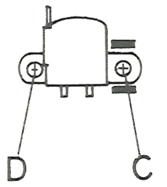
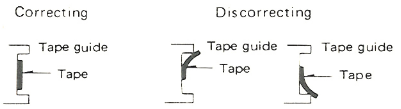
Step	Item	Adjustment	Adjusting point	Standard value	Remarks
1	Checking record/playback frequency response	Record 1kHz, 50Hz and 10kHz signals at an input level of 0VU -20dB. Play back the tape. Check to see that the 50Hz and 10kHz signal output deviations fall within the standard range, using the 1kHz signal output as a reference. (It is basically desirable that the 1kHz, 50Hz and 10kHz signal outputs are the same.)		Standard frequency; 1kHz With a normal tape 0±3dB at 50Hz 0±3dB at 10kHz With a chrome tape 0±3dB at 50Hz 0±3dB at 10kHz With a feri-chrome (FeCr) 0±3dB at 50Hz 0±4dB at 10kHz	This checking should be performed for normal and chrome tapes and for both right and left channels. Adjustment is performed with the semi-fixed resistors for bias current adjustment (normal tape; VR502 and VR602, chrome tape; VR503 and VR603). Adjustment using a FeCr tape should not be performed.
* 2	Checking recording bias current	Record 1kHz, 50Hz and 10kHz signals at an input level of 0VU -20dB. Play back the tape. Adjust VR502 and VR602 (for a normal tape), VR503 and VR603 (for a chrome tape) until the indicated deviation of the 10kHz signal output from the 1kHz signal output becomes 0.	For normal tape VR502,602 For chrome tape VR503,603	Output deviation: 0	1. Bias current adjustment for a cassette deck should generally be performed referring to the record/playback frequency response. This is because the frequency response of a cassette deck depends more greatly upon the bias current than does that of an open reel deck. The current measuring method described below is an alternative one. 2. If the bias current is not properly adjusted, the record and playback characteristics become as shown below. 
		Alternative method 1. Set the deck to its recording mode. 2. Connect a 100Ω resistor to the grounding terminal (+ terminal in playback) and the lead wire of the head as shown below. 3. Measure voltage at both ends of the resistor with electronic voltmeter.  		With normal tape 31mV With chrome tape 46.5mV	1. In order to distinguish the – terminal of the head from its + terminal, touch the terminals with a finger while the deck is in the playback mode. The VU meters deflect when the - terminal during recording is touched. (For a record/playback head, the polarity is reversed according to whether recording or playback.) 2. Be sure to employ a shielded wire.

Step	Item	Adjustment	Adjusting point	Standard value	Remarks
* 3	Adjusting recording level	1. Apply a 1kHz, approx. -10dB signal to the LINE IN terminals. Adjust the recording level controls until the signal is available at -4dBs at the LINE OUT terminals. 2. After checking to see if the VU meters point to 0, record the signal applied to both left and right channels using a normal tape. 3. Play back the recorded part. Perform the recording signal adjustment with VR501 and VR601 so that the VU meters deflect to 0.	VR501,601 REC LEVEL	0VU	The level difference between left and right channels for normal tape and chrome tape should be less than 1dB (1 VU). Perform the adjustment using a normal tape, level difference between recording and playback for CrO_2 and FeCr tapes should be less than 1.5dB, and that between left and right channels should also be less than 1.5dB.
4	Checking record/playback signal distortion	1. Record a 1kHz, 0VU -4dBs signal to LINE IN terminals and perform recording with the VU meters pointed to 0. 2. Play back the recorded part. Check the output with a distortion meter to see if the value conforms to the standard value.		Normal tape; Less than 2.5% Chrome tape; Less than 3%	Be sure to perform this adjustment following bias current and recording level adjustments.
5	Checking signal to noise ratio in recording/playback	1. Record a 1kHz, 0 VU signal. Stop the input by disconnecting from the terminal to perform non-signal recording. 2. Play back the recorded part. Measure the 0 VU recording output and the non-signal recording output for comparison using an electronic voltmeter. Check to see if the value conforms to the standard value.		Normal tape; More than 42dB Chrome tape; More than 42dB	Apply an output (-72dBs) to the MIC terminals with the recording level controls set to maximum so that the VU meters deflect to 0.
6	Checking erasing coefficient	1. Apply a 1kHz signal to the LINE IN terminals. Adjust the recording level controls until the VU meters deflect to 0. 2. Perform recording with the signal enhanced by 20dB. 3. Erase a part of the recording. 4. Measure the output difference between the erased part and non-erased part to compare with an electronic voltmeter.		More than 60dB	For the measuring, connect a band pass filter between the deck and the electronic voltmeter  Input (1kHz 0VU + 20dB) Tape deck (recording, erasing) Band pass filter Electronic voltmeter
* 7	Checking the Super ANRS circuit	1. Unsolder the bias-cut position on the main circuit board to stop the bias oscillation. 2. Fully turn the semi-fixed resistors, VRA01 and VRB01 in the opposite direction of the arrow shown on the circuit board. (If they have been roughly adjusted, there is no need to turn them.) 3. Set the deck in the recording mode with the ANRS switch set to OFF. 4. Apply a 1kHz, approx. -10dBs signal to the LINE IN terminals. Adjust the recording level controls until the outputs at the test points, TP-L and TP-R, are 0dBs. (Be sure not to move the recording control positions during this adjustment.) The output at the LINE OUT terminals is approx. -1dBs. (Corresponding to CAL mark on the VU meters.)			

Step	Item	Adjustment	Adjusting point	Standard value	Remarks
		5. Decrease the input signal by 40dB with an attenuator. (The output at the test points is -40dB) 6. Adjust the VRA01 (for left channel) and the VRB01 (for right channel) with the ANRS switch set to ON until the outputs at the test points are -34.3dBs. (The output difference is 5.7dB with the ANRS switch set to ON, and then set to OFF.) 7. Check to see if the output at test points is -16.5dBs ±1dB with the input signal adjusted to 20dB, 5kHz with an attenuator. (The output difference with the ANRS switch set to ON and then set OFF is 3.5dB.) 8. Check to see if the test point output difference between that with the ANRS switch set to ON and that set to OFF is less than 0.5dB, with the input signal adjusted to 0dB by an attenuator and a 1kHz signal frequency. 9. Turn ANRS switch in "Super" position when input 10kHz signal from LINE IN. Check LINE OUT levels so that it become -6dB down. 10. Playback the reference tape VTT-664 and check output level so that it less than ±1dB when ANRS switch is turned OFF from ON. 11. Solder the bias-cut position to operate the bias oscillation.			
8	Check the multi-point peak level indicator lighting level	Apply a 1kHz, -10dBs signal to the left channel terminal only of the LINE IN terminals. Adjust the recording level control until the output at the LINE OUT terminal is -4dBs. Then, adjust the VR303 until the "0dB" indicator lights and check to see if the indicator extinguishes with the input level reduced by 0.3dB. If it does not extinguish, repeat the adjustment. For the right channel, perform the adjustment VR403 in the same manner as for the left channel.	VR303 —Lch VR403 —Rch (M.PEAK LEVEL)		

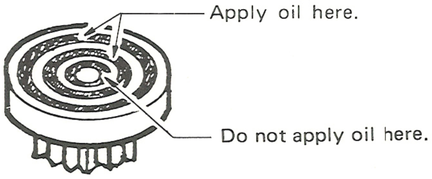
[III] Mechanical adjustment

Item	Adjustment	Adjusting point	Standard value	Remarks
Adjusting record/ playback head position  	1. Connect an electronic voltmeter to the LINE OUT terminals. 2. Play back the VTT-658 test tape. 3. Adjust the head angle with the screw B until the reading of the electronic voltmeter becomes maximum for both channels. 4. After adjusting, set the screw with screw bond.	Screw B	Maximum	1. If the head is worn, disconnected or exceedingly magnetized so as not to provide the necessary characteristics, replace it with a new one. After replacement, the head position adjustment as well as the playback level adjustment, the bias current adjustment and the recording level adjustment are all necessary. 2. If the output difference between the left and right channels exceeds 3 — 4dB, the head is defective. Replace it with a new one.

Item	Adjustment	Adjusting point	Standard value	Remarks
Adjusting erase head height 	Employ a special cassette (C-120) from which parts of the casing, where the erase head, record/playback head and capstan engage, has been cut away. Perform tape transport with the cassette tape. Adjust the screw D until the tape runs in the center of the erase head tape guide.  Correcting Discorrecting Tape guide Tape Tape guide Tape Tape guide Tape	Screw D		Be sure to perform this adjustment after replacing the erase head.
Adjusting motor speed	Connect a speed meter to the LINE OUT terminals. Play back the VTT-656 test tape. Adjust the semi-fixed resistor in the motor until the reading of the speed meter is 3000Hz±2%.	Semi-fixed resistor in the motor	3000Hz ±2% (2940Hz~ 3060Hz)	If the speed meter functions as a wow and flutter meter, also, connect the deck to the IN PUT terminals of the meter.
Checking playback torque	Employ a torque testing cassette tape for the checking, or remove the cassette cover and use a torque gauge.		40~70 gr-cm	If the standard torque is not obtained, replace the take-up disc assembly.
Checking fast forward torque	Measure the torque in the fast forward mode in the same manner as in the above.		More than 70 gr-cm	If the standard torque is not obtained, perform the following. 1. Clean the capstan belt, the idler circumference, the motor pulley, the take-up reel disc circumference, the fly-wheel circumference etc. 2. Replace the belt and idler.
Checking rewind torque	Measure the torque in the rewind mode in the same manner as in the above.		More than 70 gr-cm	If the standard torque is not obtained, clean the capstan belt, idler, motor pulley, flywheel circumference, rewinding idler circumference, left reel disc circumference etc.
Adjusting the auto-stop mechanism	Perform the adjustment with the 2 screws securing the solenoid.			Check to see if the locked points of the cassette operation levers and the friction-prone points are applied with molybdenum.
Checking wow and flutter	Connect a wow and flutter meter to the LINE OUT terminals. Play back the VTT-656 test tape. Check to see if the reading of the meter is within 0.06% (WRMS).			If the reading exceeds 0.05% even if conforming to the standard, a re-claim may be raised. Repairs are necessary.

Damping gear oil

Oil employed – Torque grease specified by JVC (KANTO KASEI GP-608)
Applying method – Apply in both concaved sections as shown in the figure.



No. 4170

[IV] Repair of Wow Flutter

If wow and flutter increase, check the following points. If there is defect in revolving parts, the wow and flutter generated will increase in proportion to the number of revolutions.

Play a 3000Hz test tape, and defective part can be detected from the sound.

Section	Trouble	Repair
Capstan and flywheel	Capstan shaft has excessive run-out. Flywheel turns heavily. (shaft seisure, thrust play, etc.)	Replace flywheel. Clean the capstan shaft and the groove in the flywheel. Apply oil to the metal position. Replace the capstan assembly.
Pinch roller	Rough rotation (Deformation scratches, or dust.) The angular position of the pinch roller is not correct. The pinch roller pressure is not corrent.	Replace pinch roller, or pinch roller spring. Clean the pinch roller or apply oil to the rotary shaft. Adjust the pinch roller so that it is parallel with the capstan shaft. Replace the pinch roller spring.
Belt	Belt has undue run-out. Belt is dirty or slippery.	Clean the belt. Replace the belt.
Back tension	Back tension is irregular, or back tension is too strong.	Replace back tension spring (under supply disc).
Motor	Motor shaft has undue run-out. Motor pulley is oily and dusty.	Replace motor. Clean motor pulley.

Maintenance

To get long, trouble-free service, maintenance is important. Do not forget cleaning and demagnetizing.

Cleaning

After long use, the heads and tape part – capstan, pinch roller, etc. – will become dirty with dust or magnetic particles. Dirty heads cause imperfect erasing or high frequency drop-off. A dirty capstan and pinch roller will cause unstable tape speed, leading to increased wow and flutter. Always keep them clean by following the procedure below.

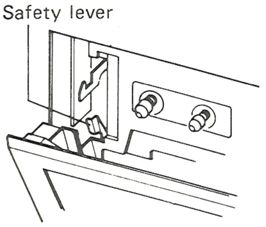
1. Heads

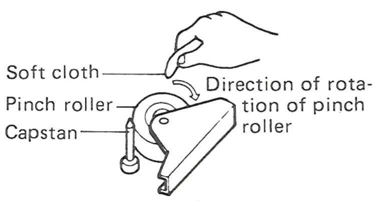
1) Press the EJECT Lever to open the cassette door.
2) Use the head cleaning stick provided to wipe the surface where the tape comes into contact with the head.
(It is effective to moisten the cotton with alcohol.)

2. Pinch roller and capstan

1) Press the PLAY Lever, holding to press the safety lever and the pinch roller will move out and rotate.
2) Apply a soft cloth (soaked in alcohol, it will be more effective) to the rotating pinch roller and capstan.
Be careful not to let the cloth get caught!

* Do not use any cleaner besides alcohol or a specifically prepared tape head cleaning solution.





3. Cabinet

When the cabinet becomes dirty, wipe it with a soft cloth soaked with a neutral cleaning solution of a polishing cloth.

* Do not use thinner or benzine.

Demagnetizing

The heads are made from a material resistant to magnetization, but after long use they may become magnetized. A magnet brought into their vicinity can magnetize the heads, causing excess noise. If noise seems to have increased, demagnetize the heads with a head demagnetizer through the following procedure.

1. Turn the POWER switch OFF.
2. Wrap the tip of the demagnetizer with vinyl tape or soft cloth so as not to demage the head surface. Switch on the demagnetizer and bring it close to the head.
3. Move the tip of the demagnetizer slowly first to the left and right, then up and down in front of the head.
Gradually move it away from the head and switch if off at a distance of more than 30 cm. (12")
4. The erase head need not be demagnetized. The capstan shaft and tape guide should be demagnetized in the same way as the record/playback head.

* Do not bring a magnetized metallic object (a screwdriver, for example) near the head as this will increase noise.

Oiling

Feed one or two drops of machine oil to the rewind roller shaft and pinch roller shaft once or twice a year under normal conditions of use.

Avoid oiling them excessively, or rotation may become irregular because of oil splashes.

P.W. Board Parts

Main Amp P.W. Board Parts

Voltage values are measured by the following meter without input signal at recording mode.

C. Tester = Circuit Tester (20 kΩ/V impedance)

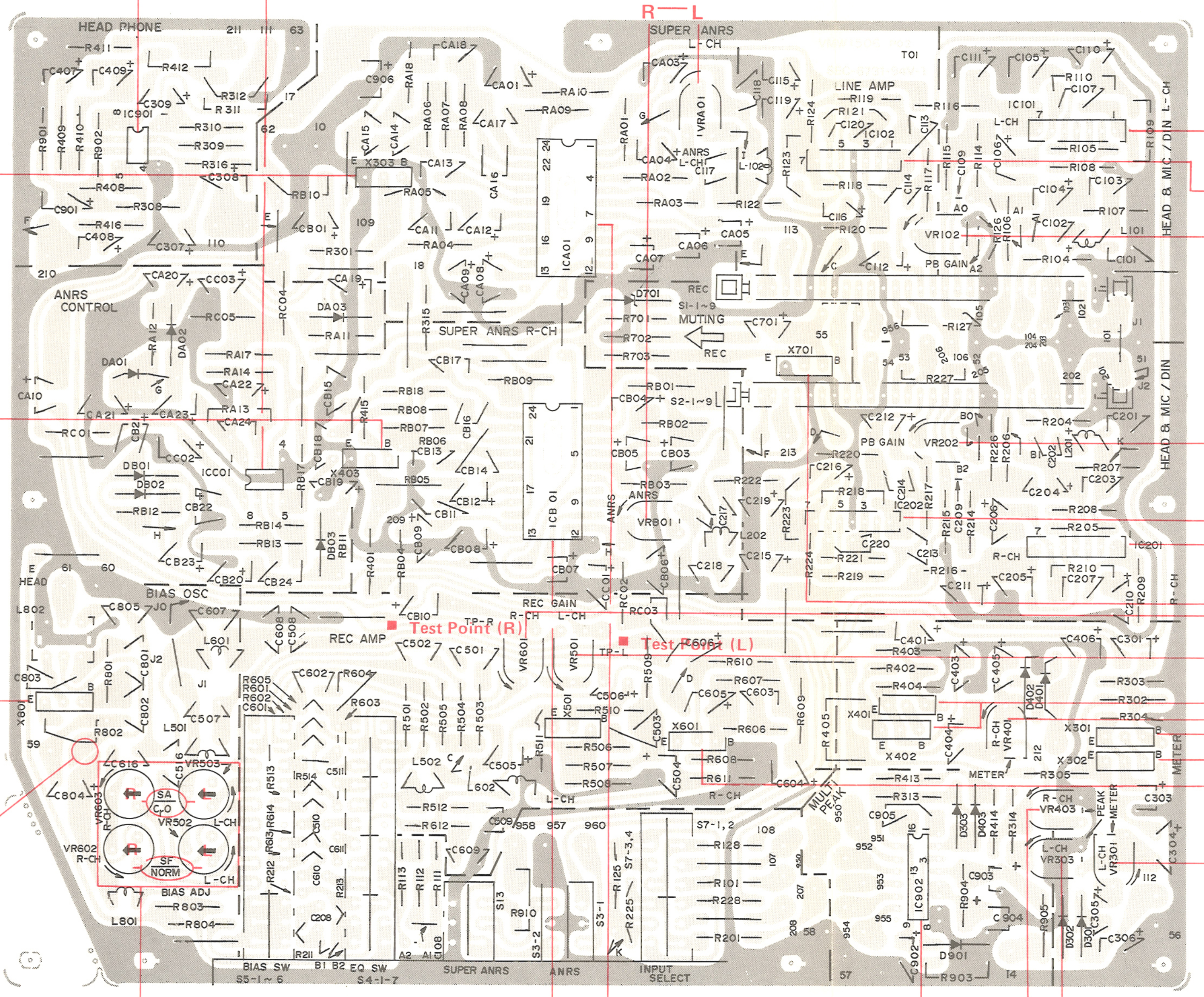
E. Voltmeter = Electronic Voltmeter

		1	2	3	4	5	6	7	8
IC901	C. Tester	11	11	4.7	0	4.7	11	11	12
	E. Volt-meter	10.8	10.8	10.7	0	10.7	10.8	10.8	21.5
ICC01	C. Tester	11	11	8.9	0	8.9	11	11	21
	E. Volt-meter	10.8	10.8	10.7	0	10.7	10.8	10.8	21

E	C	B		
0	0	0	C. Tester	X303 X403
0	0	–0.3	E. Volt-meter	
0.31	19.0	0.19	C. Tester	X801
0.27	17.6	0.15	E. Volt-meter	

		1	2	3	4	5	6	7
IC101 IC201	C. Tester	1.85	0.27	0.07	0.29	0.61	7.9	20
	E. Volt-meter	1.91	0.59	0.07	0.29	0.62	8.2	20
IC102 IC202	C. Tester	2.24	0.13	0.22	0	0.90	7.8	20.3
	E. Volt-meter	2.22	0.78	0.21	0	0.87	8.0	20.3

		E	C	B
X701	C. Tester	0	0.07	0.5
	E. Volt-meter	0	0.07	0.6
X301 X401	C. Tester	3.4	8.7	2.24
	E. Volt-meter	3.2	8.8	3.8
X302 X402	C. Tester	9.5	3.2	8.7
	E. Volt-meter	9.5	3.2	8.8
X501 X601	C. Tester	0.86	6.9	0.46
	E. Volt-meter	0.87	7.7	1.48


HEAD PHONE
ANRS CONTROL
SUPER ANRS R-CH
SUPER ANRS L-CH
LINE AMP
PB GAIN
REC
MUTING
HEAD & MIC / DIN L-CH
HEAD & MIC / DIN R-CH
BIAS OSC
REC AMP
REC GAIN
Test Point (R)
Test Point (L)
BIAS ADJ
NORM
METER
MULTI PEAK
R-CH
L-CH
BIAS SW S5-1~6
EQ SW S4-1~7
SUPER ANRS
ANRS
INPUT SELECT
R
L

For ANRS adjustment
(Turning in the direction of the arrow following the adjustment procedure increases the signal levels.)

For playback level adjustment
(Turning in the direction of the arrow increases the playback levels.)

For recording level adjustment
(Turning in the direction of the arrow increases the recording levels.)

For VU meter deflection adjustment
(Turning in the direction of the arrow increases the deflection angles.)

For multi-point peak level indicator lighting level adjustment
(Turn in the direction of the arrow to light the indicator.)

Bias Cut
(When adjusting the bias current, unsolder this position to stop the bias oscillation.)

For bias current adjustment
(Turn in the direction of the arrow increases the bias current value.)

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
ICA01 ICB01	C. Tester	7.4	8.6	9.2	7.4	7.0	2.0	0	0.5	8.1	8.1	0.34	0	0.06	0.66	18.0	8.3	9.5	8.3	9.5	11.0	11.0	11.0	11.0	15.5
	E. Volt-meter	9.2	8.6	9.4	9.3	7.0	2.0	0	0.5	8.2	8.2	0.35	0	0.05	0.7	18.9	8.2	9.5	8.2	9.4	10.6	10.6	10.6	10.6	15.2
IC902	C. Tester	0.64	0	0	12.8	2.8	2.8	0	0	–	5.75	5.75	5.75	5.75	5.75	0.04	0.3								
	E. Volt meter	0.65	0.57	-0.08	12.5	2.76	2.76	0	0	–	5.8	5.8	5.8	5.8	5.8	0.04	0.31								

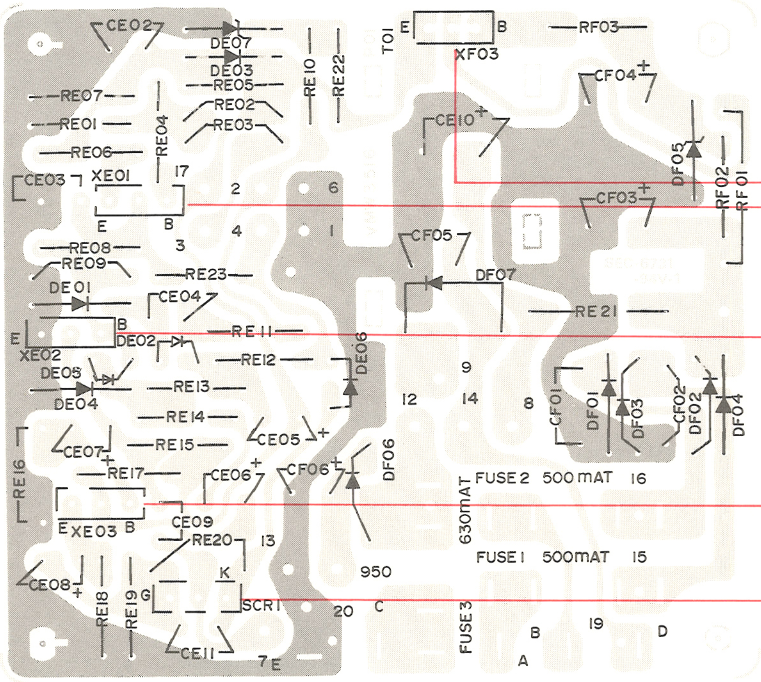
Main Amp P.W. Board Parts List

⚠ parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	*VMW1506-002	P.W. Board	No supply as parts ass'y	1
R101, 201	QRD141K-823	C. Resistor	82 kΩ ¼ W	2
R104, 204	" -153	"	15 kΩ "	2
R105,205,110,210, 115,215,A01,B01, A02,B02,C04,C05, 503	" -473	"	47 kΩ "	13
R106,206,304,404, 910	" -271	"	270 Ω "	5
R107, 207	" -122	"	1.2 kΩ "	2
R108,208,312,412	" -151	"	150 Ω "	4
R109,209,301,401	" -124	"	120 kΩ "	4
R114,214,A08,B08	" -183	"	18 kΩ "	4
R116,216,	" -821	"	820 Ω "	2
R117,217,128,228, 305,405,315,415, A04,B04,A05,B05	" -102	"	1 kΩ "	12
R118,218,505,701, A09,B09,A13,B13	" -104	"	100 kΩ "	8
R119,219,302,402, 308, 408	" -224	"	220 kΩ "	6
R120, 220	" -221	"	220 Ω "	2
R121,221,309,409, A11, B11	" -103	"	10 kΩ "	6
R122,222,123,223, A14, B14	" -332	"	3.3 kΩ "	6
R125,225,313,413, 506, 606	" -333	"	33 kΩ "	6
R126,226,310,410, 903	" -153	"	15 kΩ "	5
RA03, B03, 904	" -222	"	2.2 kΩ "	3
RA06,B06,A07,B07	" -272	"	2.7 kΩ "	4
RA12,B12,A17,B17 311,411,316,416, 510,610	" -223	"	22 kΩ "	10
RA18, B18	" -680	"	68 Ω "	2
RC03	QRD143K-473	"	47 kΩ "	1
RC02, 127, 227	QRD141K-471	"	470 Ω "	3
R303, 403	" -154	"	150 kΩ "	2
R314, 414	" -822	"	8.2 kΩ "	2
R901,902,504,801	" -683	"	68 kΩ "	4
R501	" -823	"	82 kΩ "	1
R502	" -274	"	270 kΩ "	1
R507, 607	" -684	"	680 kΩ "	2
R508, 608	" -563	"	56 kΩ "	2
R509, 609	" -222	"	2.2 kΩ "	2
R511, 611	" -152	"	1.5 kΩ "	2
R512, 612	" -121	"	120 Ω "	2
R702	" -2R2	"	2.2 Ω "	1
R703	" -562	"	5.6 kΩ "	1
	QWY123-022	Bus Wire	for Jump	24
R111	QRD141K-334	C. Resistor	330 kΩ ¼ W	1
R211	QRD143K-334	"	330 kΩ "	1
R112	QRD141K-682	"	6.8 kΩ "	1
R212	QRD143K-682	"	6.8 kΩ "	1
R113	QRD141K-472	"	4.7 kΩ "	1
R213	QRD143K-472	"	4.7 kΩ "	1
R601	QRD143K-823	"	82 kΩ "	1
R602	QRD143K-274	C. Resistor	270 kΩ ¼ W	1
R603	" -473	"	47 kΩ "	1
R604	" -683	"	68 kΩ "	1
R605	" -104	"	100 kΩ "	1
R513, 613	" -221	"	220 Ω "	2
R514, 614	" -271	"	270 Ω " ⚠	2
R124,224,C01	QRD146K-221	"	220 Ω " ⚠	3
RA10,B10,803,804	" -151	"	150 Ω " ⚠	4
R802	" -100	"	10 Ω " ⚠	1
R905	QRD146K-331	C. Resistor	330 Ω "	1
	V44611-006	Bus Wire	P = 7.5	1
C101,201,120,220	QCS11HJ-391	Fixed C. Capacitor	390 pF 50 V	4
C102, 202	QEE51EM-475	Ta. E. Capacitor	4.7 µF 25 V	2
C103,203,114,214	QCS31HJ-471Z	Fixed C. Capacitor	470 pF 50 V	4
C105, 205	QEW61AA-107Z	E. Capacitor	100 µF 10 V	2
C106, 206	QEB41EM-336	L.L.E. Capacitor	33 µF 25 V	2
C107, 207	QCS11HK-390	Fixed C. Capacitor	39 pF 50 V	2
C108, 208	QFM11HJ-103	Mylar Capacitor	0.01 µF "	2
C109, 209	QCS11HK-121	Fixed C. Capacitor	120 pF "	2
C110, 210	QEB41EM-475M	L.L.E. Capacitor	4.7 µF 25 V	2
C112, 212	QEB41HM-104M	"	0.1 µF "	2
C113, 213	QCS31HK-470Z	F.C. Capacitor	47 pF 50 V	2
C116, 216	QEW41EA-335N	E. Capacitor	3.3 µF 25 V	2
C117	QCS11HJ-151	F.C. Capacitor	150 pF 50 V	1
C217	" -151	"	150 pF "	1
C118, 218	QFM11HJ-102	Mylar Capacitor	0.001 µF "	2
CA03, B03	QEB41EM-336	L.L.E. Capacitor	33 µF 25 V	2
CB04	QEW41HA-105N	E. Capacitor	1 µF 50 V	1
CA04	" -105N	"	1 µF "	1
CA05, B05	QEW41CA-336N	"	33 µF 16 V	2
CA06,B06,A07,B07	QEW41EA-335N	"	3.3 µF 25 V	4
CA09, B08	QEW41AA-107N	"	100 µF 10 V	2
CA08, B09	" -107N	"	100 µF "	2
CA10, A12	QEW41EA-475N	"	4.7 µF 25 V	2
CB10, B12	" -475N	"	4.7 µF "	2
CB11, A13, B13	QCS11HK-101	Fixed C. Capacitor	100 pF 50 V	3
CA11	" -101	"	100 pF "	1
CA14, B14	QFM11HJ-272	Mylar Capacitor	0.0027 µF "	2
CA15, B15	" -273	"	0.027 µF "	2
CA16, B16	" -682	"	0.0068 µF "	2
CA17, B17	QCS11HK-331	Fixed C. Capacitor	330 pF "	2
CA18, B18	QCS11HJ-471	"	470 pF "	2
CA19,B19,A22,B22	QEW41HM-334M	L.L.E. Capacitor	0.33 µF 25 V	4
CA20, B20	" -335M	"	3.3 µF "	2
CA21, B21	QEW41AA-476N	E. Capacitor	47 µF 10 V	2
CA23, B23	QEW41HA-105N	"	1 µF 50 V	2
CA24, B24	QCS11HK-470	Fixed C. Capacitor	47 pF "	2
CC03, 901	QEW41CA-106N	E. Capacitor	10 µF 16 V	2
C301, 401	QEB41HM-104M	L.L.E. Capacitor	0.1 µF 50 V	2
C304, 404, 804	QEW41EA-475N	E. Capacitor	4.7 µF 25 V	3
C305, 405	" -106N	"	10 µF "	2
C406, 307, 407	QEW41CA-336N	"	33 µF 16 V	3
C306	" -336N	"	33 µF "	1
C308, 408	QEW41EA-335N	"	3.3 µF 25 V	2
C501, 601	QFM11HJ-152	Mylar Capacitor	0.0015 µF 50 V	2
C502, 602	" -102	"	0.01 µF "	2
C503, 603	" -102	"	0.1 µF "	2
C504, 604	QEW41EA-336N	E.Capacitor	33 µF 25 V	2

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
C505,605,506,606	QEW61HA-105ZN	E. Capacitor	1 μF 50 V	4
C507, 607	QCS11HJ-151	Fixed C. Capacitor	150 pF "	2
C508, 608	" -391	Fixed C. Capacitor	390 pF "	2
C509, 609	QFM11HJ-123	Mylar Capacitor	0.012 μF "	2
C510, 610	" -332	"	0.0033 μF "	2
C511, 611	QFM41HJ-272	"	0.0027 μF "	2
C801	QFZ0001-103	Polypropylene Capacitor	0.01 μF	1
C802	QFM11HJ-103	Mylar Capacitor	0.01 μF 50 V	1
C803	QFZ0001-392	Polypropylene Capacitor	0.0039 μF	1
C805	QFS42BK-821	Polystyrol Capacitor	820 pF	1
C902	QEW41EA-475N	E. Capacitor	4.7 μF 25 V	1
C904	QEW41HA-105N	"	1 μF 50 V	1
C905	QCS11HK-470	"	47 pF "	1
C104, 204	QEB41EM-476	L.L.E. Capacitor	47 μF 25 V	2
C111, 211	QEW41EA-476N	E. Capacitor	47 μF "	2
C115,215,303,403, C01, 701	QEW40JA-227N	"	220 μF 6.3 V	6
C119,219,309,409,C02	QEW41EA-476N	"	47 μF 25 V	5
CA01, B01	QEW41EA-227N	E. Capacitor	220 μF 25 V	2
C516, 616	QFS42BK-471	Polystyrol Capacitor	470 pF	2
C903	QEW41CA-107N	E. Capacitor	100 μF 16 V	1
C906	QEW41EA-477N	"	470 μF 25 V	1
L101, 201	TAC000493-01	Inductor	20 μH	2
L102, 202	VQP0001-183	"	(or VQP0001-183S)	2
L501, 601	VQP0001-183	"	(or VQP0001-183S)	2
L502, 602	VQP0001-562	"	(or VQP0001-562S)	2
L801	VQP0001-102	"	(or VQP0001-102S)	1
L802	TAB345518-01	Osc. Coil		1
VR102,202,501,601	QVP8A0B-024	Semi Fixed Resistor		4
VRA01,B01,301,401	" -023	"		4
VR303, 403	" -053	"		2
VR502, 602	QVP4A0B-224	"		2
VR503, 603	" -104	"		2
IC101, 201	UPC1024HV	IC		2
IC102, 202	UPC1024H	"		2
ICA01, B01	TAT000351-01	Super ANRS IC		2
ICC01, 901	UPC4558C	IC		2
IC902	LB1415S	"		1
DA01,B01,A02,B02	1N34A	Ge. Diode		4
DA03, B03	1S2076	Si. Diode		2
D301,401,302,402	1N34A	Ge. Diode		4
D303, 403, 901	1S2075K-23	Si. Diode		3
D701	RD6.8E(C)	Zener Diode		1
X301, 401, 701	2SC458A(C)	Si. Transistor		3
X302, 402	2SA844(D)	"		2
X303, 403, 801	2SC1213A(D)	"		3
X501, 601	2SC1344(E, F)	"		2
S1, 2	QSS9201-005A	Slide Switch	for Record/Playback	2
	*QSP0250-102	Push Switch		1
	E43727-002	Wrapping Tab		58

Power Supply P.W. Board Parts


CE02
DE07
DE03
RE05
RE02
RE03
RE07
RE01
RE06
RE04
CE03
XE01
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B
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2
6
4
1
3
RE08
RE09
RE23
DE01
CE04
B
E
XE02
DE02
RE11
RE12
DE05
DE04
RE13
RE14
RE15
CE05
DE06
CE07
RE16
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RE22
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B
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RF03
CF04
CE10
DF05
RF02
RF01
CF03
CF05
DF07
RE21
9
12
14
8
CF01
DF01
DF03
CF02
DF02
DF04
FUSE 2 500mAT 16
630mAT
FUSE 1 500mAT 15
FUSE 3
B
19
D
A

		E	C	B
XF01	C. Tester	22	24.8	22.5
	E. Volt-meter	21.5	25.9	22.2
XE01	C. Tester	15.2	0.34	16.8
	E. Volt-meter	14.5	0.7	16.8
XE02	C. Tester	0	0.06	0.7
	E. Volt-meter	0	0.07	0.7
XE03	C. Tester	0	22	0
	E. Volt-meter	0	21.5	0

		G	A	K
SCR1	C. Tester	0	26.9	0
	E. Volt-meter	0	26.9	0

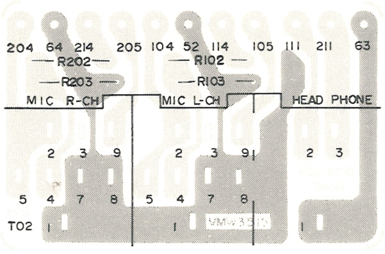
Power Supply P.W. Board Parts List

⚠ parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	*VMW3516-001	P.W. Board	No supply as parts ass'y	1
RE01	QRD141K-823	C. Resistor	82 kΩ ¼ W	1
RE02, E08	″ -223	″	22 kΩ ″	2
RE03, E04, E05	″ -273	″	27 kΩ ″	3
RE06	″ -151	″	150 Ω ″	1
RE07, E09, E16	″ -563	″	56 kΩ ″	3
RE10, E19	″ -103	″	10 kΩ ″	2
RE11	″ -471	″	470 Ω ″	1
RE12, 23	″ -683	″	68 kΩ ″	2
RE13	″ -183	″	18 kΩ ″	1
RE14, E22	″ -102	″	1 kΩ ″	2
RE15	″ -562	″	5.6 kΩ ″	1
RE17	″ -472	″	4.7 kΩ ″	1
RE18	″ -272	″	2.7 kΩ ″	1
RE20	″ -102	″	1 kΩ ″	1
RE21	QRG016J-102	Oxided Metal Film Resistor	1 kΩ 1 W ⚠	1
RF01	QRX029J-8R2	Metal Film Resistor	8.2 Ω ⚠	1
RF02	QRD146K-102	C. Resistor	1 kΩ ¼ W ⚠	1
RF03	″ -330	″	33 Ω ″ ⚠	1
CE02	QEW41CA-227M	E. Capacitor	220 µF 16 V	1
CE03	″ -476N	″	47 µF ″	1
CE04	QEW41EA-226N	″	22 µF 25 V	1
CE05, E06	QEB41EM-476	L.L.E. Capacitor	47 µF ″	2
CE07	QEW41EA-475N	E. Capacitor	4.5 µF ″	1
CE08	″ -335N	″	3.3 µF ″	1
CE09	QEN41HA-105	″	1 µF 50 V	1
CE10, F03	QEW41VA-477N	″	470 µF 35 V	2
CE11	QCF11HP-223	Fixed C. Capacitor	0.022 µF 50 V	1
CF01, F02	QCF12HP-103	″	0.01 µF ″	2
CF04	QEW41EA-108N	E. Capacitor	1000 µF 25 V	1
CF05	QEW41CA-477N	″	470 µF 16 V	1
CF06	QEW41AA-108N	″	1000 µF 10 V	1
DE01, E02	1N34A	Ge. Diode		2
DE03, E04, E05	1S2076	Si. Diode		3
DE06, F01, F02, F03, F04, F06, F07	10E1	″	⚠	7
DE07	RD18E(B)	Zener Diode		1
DF05	RD-22E(B)	″	⚠	1
XE01	2SA844(D)	Si. Transistor		1
XE02, E03	2SC458A(C)	″		2
SCR1	2SF656	SCR		1
XF01	2SC1162WT(B, S)	Si. Transistor		1
	TAR272448-01	Heat Sink	for XF01	1
	LPSP3008ZS	Screw	″	1
	TAZ000331-02	Fuse Holder	KD-S201A/B/E ⚠	6
	QMF51A2-R50LBS	Fuse	Fuse 1,2 KD-S201B ⚠	2
	QMF51A2-R50	″	″ KD-S201A/E ⚠	2
	QMF51A2-R63SBS	″	Fuse 3 KD-S201B ⚠	1
	QMF51A2-R63	″	″ KD-S201A/E ⚠	1
	E40130-001	Tab	for Power Trans. Wire Wrapping KD-S201A/B/E	5
	E43727-002	Tab	for Power Trans. Wire Wrapping KD-S201C/J/U	5

Other P.W. Board Parts

Mic & Headphone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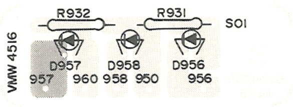
R202
R203
R102
R103
MIC R-CH
MIC L-CH
HEAD PHONE
2 3 9 2 3 9 2 3
5 4 7 8 5 4 7 8
T02
VMW3515

Indicator (1)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S01
VMW 4516
D957
D958
D956
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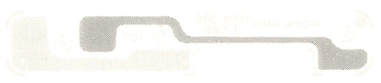
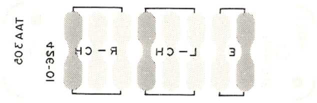
Tape Amount Illumination



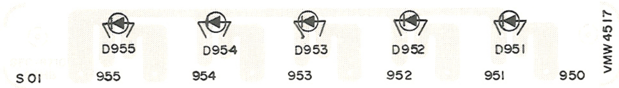
Head Wire Terminal


TAA 305
426-01
R-CH
L-CH
E

Reed Switch

Lamp Wire Terminal

Indicator (2)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D954
D953
D952
D951
S01
955
954
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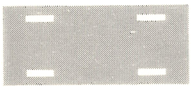
952
951
950
VMW4517

Pin Jacks



Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	VMW4518-001	P.W. Board	for Lamp wire	1
	TAA345532-01	Board	for Pin jacks	1
(Microphone & Headphone Jacks)				
	*VMW3515-001	P.W. Board		1
R102, 202	QRD142K-102	C. Resistor	1 kΩ ¼ W	2
R103, 203	" -223	"	22 kΩ "	2
	VMJ5002-002	Jack Ass'y	for MIC & H.P.	1
	E43727-002	Wrapping Tab		11
(Indicator (1)) .... for REC, ANRS, Super ANRS				
	*VMW4516-001	P.W. Board		1
R931	QRD142K-561	C. Resistor	560 Ω ¼ W	1
R932	" -271	"	270 Ω "	1
D956	TLR102	LED		1
D957, 958	TLG102	"		2
	TER305427-01	Spacer	for LED	3
(Indicator (2)) .... for Multi-peak level				
	*VMW4517-001	P.W. Board		1
D951–955	*TLR205	LED		5
	*VYH4218-001	LED Holder		1
(Tape Amount Illuminator)				
	VMW4504-001	P.W. Board		1
	QLP3601-002	Lamp		1
(Reed Switch)				
	*VKL4286-001	Bracket	for Reed SW P.W. Board	1
	VMW4502-002	P.W. Board		1
R28	QRD142K-182	C. Resistor	1.8 kΩ ¼ W	1
C19	QCS11HK-101	Fixed C. Capacitor	100 pF 50 V	1
S905	TDS271409-01	Reed Switch		1
	53492-1	Rubber Bushing		2
	T30302-063	Collar		2
	WNB3000N	Washer		2
	SPSP2610Z	Screw		2
(Head Wire Terminal)				
	TAA305426-01	P.W. Board		1

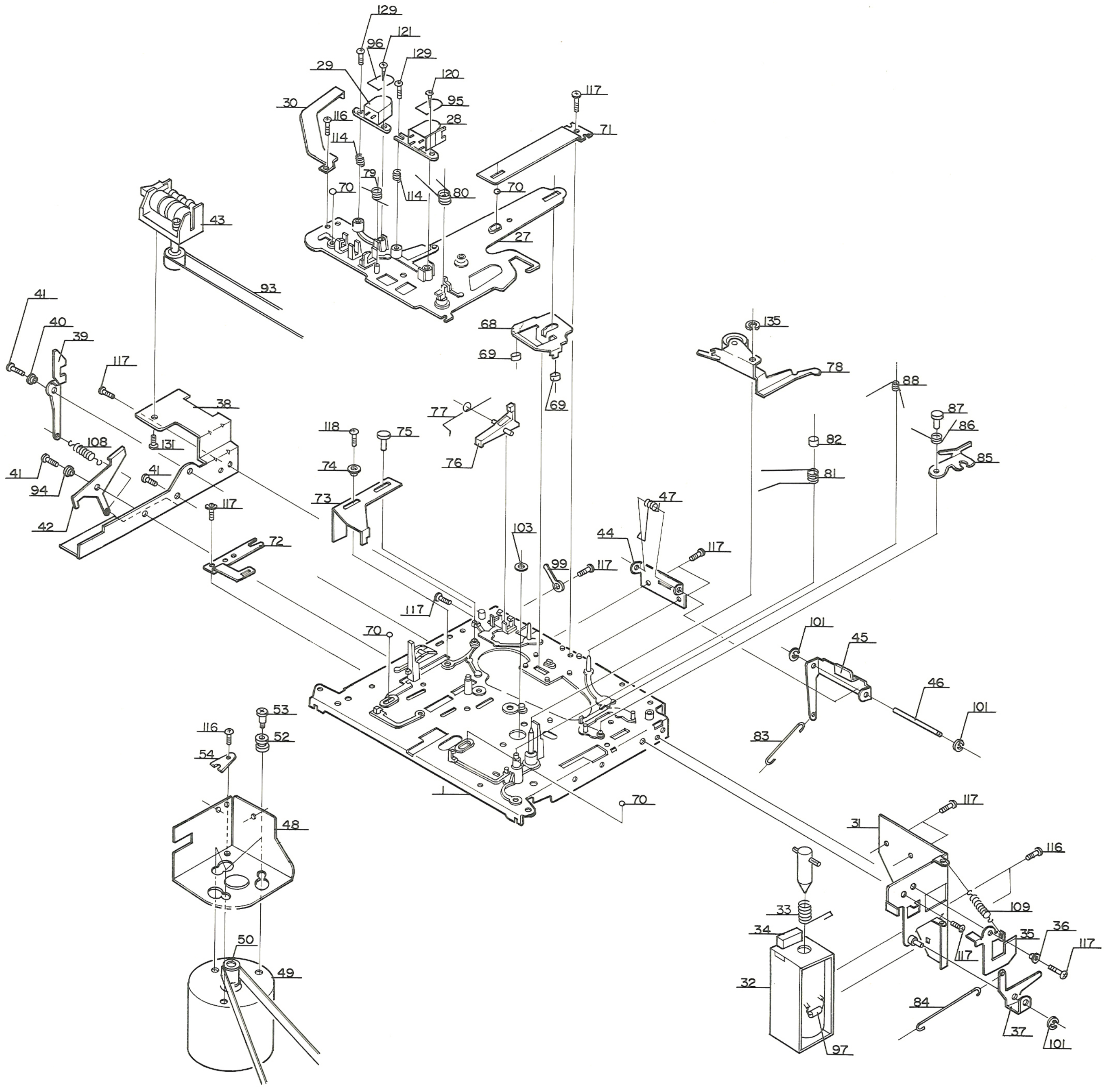
Mechanical Component Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1	TGC357101-0C	Chassis Base Ass'y		1
3	TEP357103-01	Push Bar Case		1
4	TFB357409-01	Cam Guide Bracket		2
5	VKL4171-00B	Stop Eject Bar Ass'y		1
6	VKL4117-002	Rewind Bar		1
7	VKL4118-001	Recording Bar		1
8	TGB357413-0C	Play Bar Ass'y		1
9	VKL4120-002	F.F. Bar		1
10	VKL4173-001	Pause Bar		1
11	TFP357301-03	Button Spring		1
12	TGB357302-0H	Push Bar Cam (1) Ass'y		1
13	VKL3130-001	Push Bar Cam (2)		1
14	VKL4245-00B	Push Bar Plate Ass'y		1
15	VKL4175-001	Kick Arm		1
16	T43909-008	Metal		1
17	TGP357305-0A	Reel Disk Bracket Ass'y		1
18	TGP357425-0E	Take-up Bar Ass'y		1
19	TFW357430-02	Take-up Bar Spring		1
20	TGB357438-0A	F.F. Arm Ass'y		1
21	TGB357447-0A	REW Idler Arm Ass'y		1
22	TFW357446-01	F.F. Arm Spring		1
23	TFB357451-01	Arm Stopper		1
24	TGP357431-0D	Reel Disk Ass'y	(Take-up)	1
25	TGP357431-0C	"	(Supply)	1
26	TEP357437-01	Reel Stopper		2
27	TGB357202-0C	Head Base Ass'y		1
28	ZMM074401-0A	REC/PB Head Ass'y		1
29	VGH0212-101	E. Head Ass'y		1
30	VKL4223-001	Switch Bar		1
31	VKL4176-00A	Solenoid Bracket Ass'y		1
32	TDP294319-0D	D.C. Solenoid	(or — 0DT)	1
33	VKW4108-001	Spring		1
34	TJN265423-09	Panel Cushion		1
35	VKL4178-001	Timer Recording Arm		1
36	VKH3001-004	Flange Collar		1
37	VKL4179-001	Stop Arm (1)		1
38	*VKL3140-001	Counter Bracket		1
39	VKL4180-002	Lock Arm		1
40	T43909-008	Metal	for Lock Arm	1
41	T42483-004	F.T. Screw	for Safety Arm	1
42	VKL4181-001	Safety Arm		1
43	VKC5107-00A	Counter Ass'y		1
44	VKL4183-001	Holder Bracket		1
45	*VKL4184-001	Pressure Arm		1
46	VKH4126-001	Shaft		1
47	VKW4109-001	Spring		1
48	VKL4185-001	Motor Bracket		1
49	MMX-5A2LSE	Motor		1
50	VKR4101-00A	Motor Pulley		1
52	TER357465-02	Cushion Rubber		3
53	VKZ4109-001	Motor Screw		3
54	TFB345469-01	Rubber Stopper		1
55	VKL4115-001	REC Lock Lever		1

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
56	TFB357453-01	F.F. Lever		1
57	VKH4103-001	Collar		1
58	GPA2608Z	W. Tapping Screw		1
59	TEP357422-02	Brake Lever		1
60	*VKL4186-001	Kick Arm		1
61	VKH4103-001	Collar		1
62	TFB357452-02	Rewind Lever		1
63	TEP357421-03	Special Washer		1
64	TEP361406-01	Pause Bar Guide		1
65	V31162-001	Leaf Switch	for Motor	1
66	VSH1102-001	Switch Ass'y	for Pause	1
67	VKF3101-00A	Capstan Metal Ass'y		1
68	VKL4248-001	Brake Bar		1
69	TER313493-01	Brake Rubber		2
70	T41615-004	Steel Ball	Chassis Base ~ Head Base	4
71	VKY4115-001	Spring Plate		1
72	TFP357460-03	Head Base Spring Plate		1
73	VKL4187-001	REC Push Bar		1
74	VKH3001-002	Flange Collar		1
75	TEP357469-01	Stopper		1
76	*TEP357406-03	REC Safety Lever		1
77	TFW357471-01	REC Safety Lever Spring		1
78	TGB291415-0D	Pinch Roller Arm Ass'y		1
79	TFW361408-01	REC Lock Lever Spring		1
80	TFW357467-04	Head Base Spring		1
81	TFW357463-02	Pinch Roller Spring		1
82	VKH3000-005	Collar		1
83	*VKW4110-003	Wire	Pressure Arm – L23	1
84	*VKW4110-002	″	Auto Stop – L34.5	1
85	VKL4228-001	Pause Lock Cam		1
86	VKW4127-001	Pause Lock Cam Spring		1
87	TEP357469-01	Stopper	for Pause Lock Cam	1
88	TFW357470-02	Take-Up Spring		1
89	VKF3102-00B	Flywheel Ass'y		1
90	*VKB3001-003H	Belt	for Capstan	1
91	VKL4122-001	Flywheel Bracket		1
92	TED349420-01	Thrust Screw		
93	*VKB3000-003H	Belt	for Counter	1
94	VKH3001-005	Flange Collar		1
95	THC037417-02	Head Plate	(REC/PB)	1
96	THS000489-02	Head Label	(2 Gap)	1
97	10DE1	Si. Diode	for Solenoid S10 (T30155-001)	1
99	V42603-003	Wire Clamp		6
100	T30300-211	Spring	F.F. Lever	1
101	REE2000	"E" ring	Stop Arm (1), Pressure Arm	3
103	Q03053-522	Washer	ϕ2.4 x ϕ5.5 x t0.5 for Oil Cut	1
104	″ -627	″	ϕ2.6 x ϕ7.5 x t0.3 for Thrust	1
105	″ -827	″	ϕ2.6 x ϕ4.7 x t0.25 for Thrust	1
106	VKW3000-001	Tension Spring	Cam (1)	1
107	VKW3001-010	Spring	for Thrust	1
108	T30300-153	Tension Spring	for Safety Arm, Rock Arm	1
109	″ -187	″	for Timer Recording Arm	1
110	″ -204	″	for Brake Lever	1

– Continued on page 25 –

Mechanical Component Parts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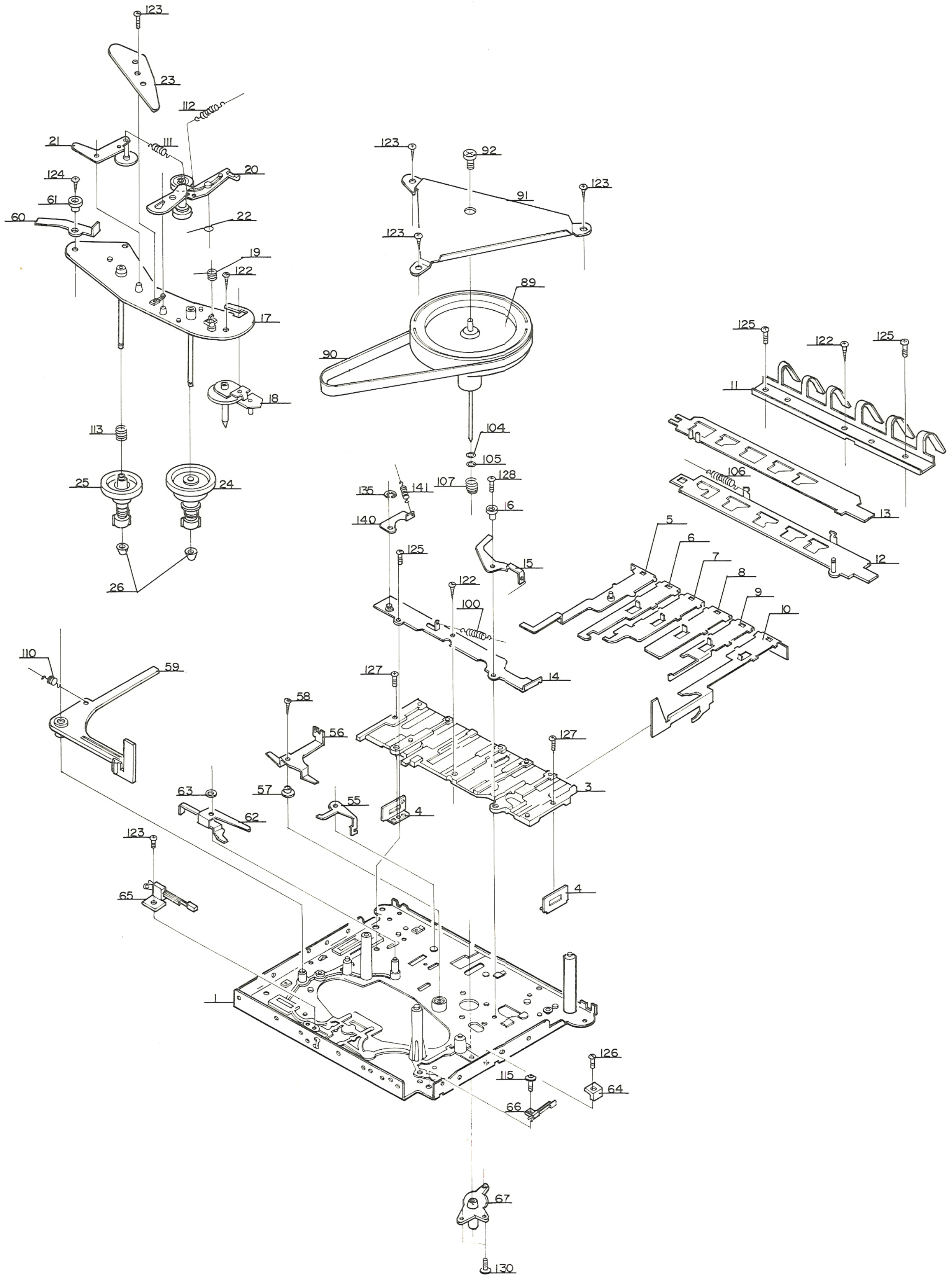
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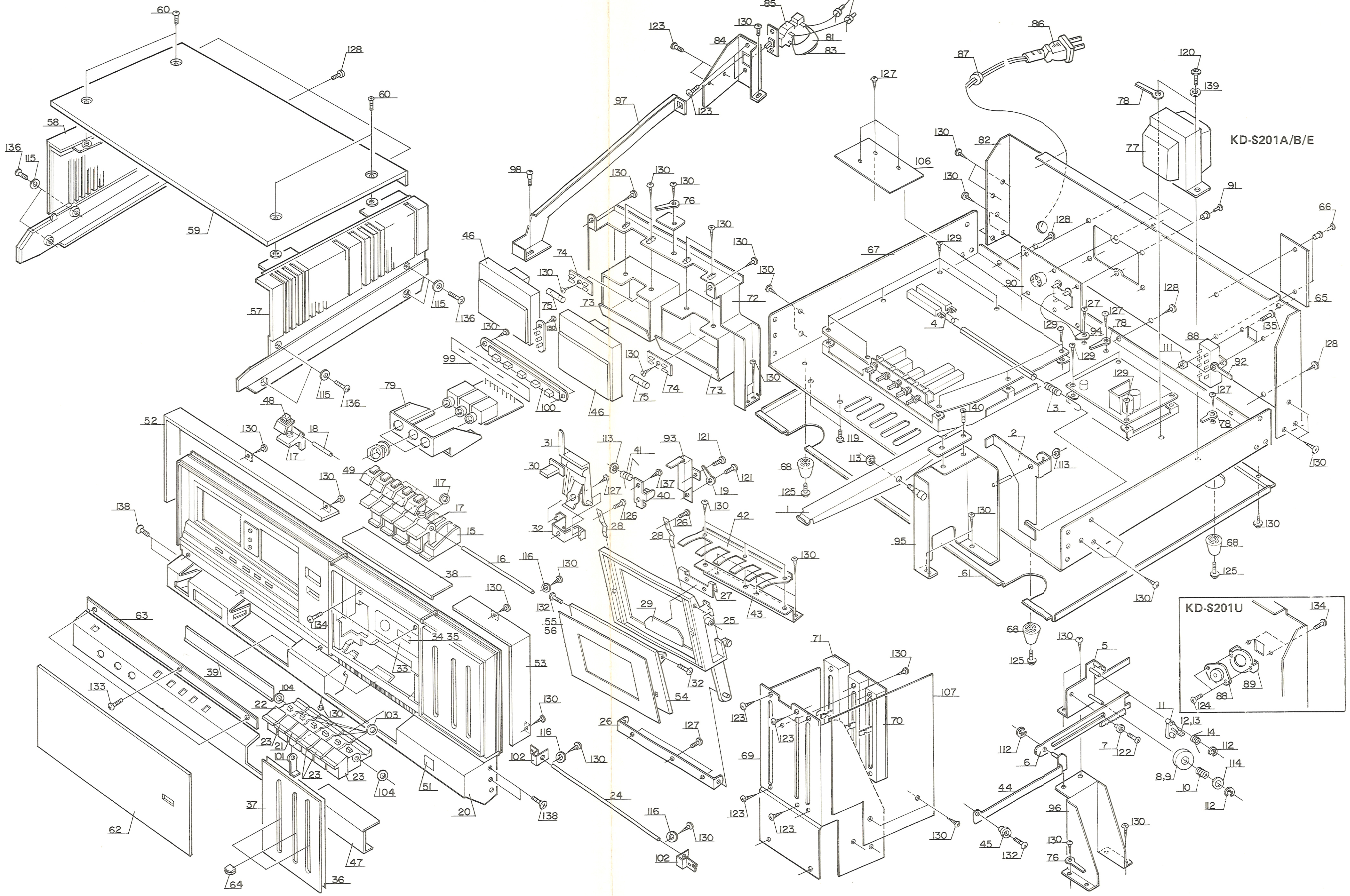
Enclosure Assembly and Electrical Parts

(Except P.W. Board Parts)

KD-S201C/J is no provided voltage select switch.


KD-S201A/B/E
KD-S201U
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* asterisk mark parts are new.
⚠ parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

Enclosure Ass'y and Electrical Parts List (Except P.W. Board Parts)

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1	*VKL4283-001	REC Arm (1)		1
2	*VKL4284-001	REC Arm (2)		1
3	VKW4107-001	REC Spring		1
4	T47946-001	REC Rod		1
5	*VKL4169-00A	Gear Frame Ass'y		1
6	VKS3102-001	Rack Plate		1
7	VKH4123-001	Collar		1
8	VKS4108-003	Spur Gear		1
9	VKS4109-004	Brake Drum		1
10	VKW3001-006	Spring		1
11	VKS4110-002	Brake Arm		1
12	VKZ4111-001	Rubber Tire		1
13	VKL4271-001	Rubber Retainer		1
14	VKW4106-001	Torsion Spring		1
15	*VYH4219-001	Push Switch Bar	for Push Switch	5
16	*VKH4166-002	Shaft	″	1
17	*VYH4217-001	Push Switch Lever	for Push Switch, Power SW	6
18	*VKH4166-001	Shaft	for Power Switch	1
19	VKZ4001-007	Wire Holder	for Muting Switch	2
20,33-39	**ZCKDS201Y-CBF**	**Front Panel Ass'y**		**1 set**
20	*VJC1036-001	Front Panel		1
21	*VXP3009-001	Mecha. Button	(REC)	1
22	*VXP3009-002	″	(STOP/EJECT)	1
23	*VXP3009-003	″		4
24	*VKH4166-003	Shaft	for Mecha. Button	1
25	*VJT2012-001	Cassette Holder		1
26	*VKL4276-001	C. Holder Bracket		1
27	*VKY4131-001	C. Spring (A)	(Middle)	1
28	*VKY4123-001	C. Spring (B)	(Left & Right)	2
29	*VJD4165-001	SA Mark		1
30	*VXP4015-001	Reset Button		1
31	*VYH4216-001	Reset Lever		1
32	*VKL4279-001	Reset Lever Bracket		1
33	*VJD4162-001	Reel Disk Plate		1
34	VJK4105-003	Cassette Indicator		1
35	VYTN401-001	Sheet		1
36	*VYTA416-001	Blind	for Slide VR	1
37	*VJD4163-002	Control Plate		1
38	*VJD3120-001	Fitting (A)		1
39	*VJD4164-001	Fitting (B)		1
40	VKL4190-00A	Spring Bracket Ass'y		1
41	VKW4119-001	Spring	for EJECT	1
42	VKY4111-002	Button Spring		1
43	*VKL4277-001	Spring Bracket		1
44	VKL4152-00B	Lever Ass'y	for Gear Damp	1
45	VKH4103-001	Collar		1
46	*VGM0110-004	Level Meter		2
47	*VJD2118-002	Fitting (C)		1
48	*VXP3010-00B	Push Knob Ass'y	for Power Switch	1
49	*VXP3011-00B	″		1
51	VNC5004-001	Mark Sticker	KD-S201B/E	1
52	*VJD3121-001	Fitting (L)		1
53	*VJD3122-001	Fitting (R)		1
54–56	ZCKDS201Y-CCA	Cassette Door Ass'y		1 set

— Continued from page 22 —

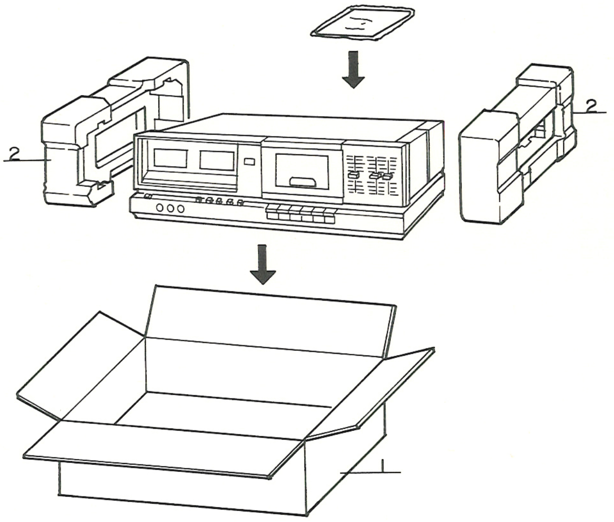
Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
111	T30300-205	Tension Spring		1
112	VKW-3002-001	"		1
113	T30301-145	Compression Spring	Back Tension	1
114	" -148	"	REC/PB Head	2
115	SDSP2606Z	Screw	Pause Switch	1
116	LPSP2604Z	"	SW Bar, DC Solenoid, Rubber Stopper, Spring Plate, Head Base Spring Plate	5
117	LPSP2605Z	"	Timer Recording Arm, Pressure Arm, Motor Bracket, Counter Bracket	7
118	LPSP2606Z	"	Recording Push Bar	1
119	LPSP3006Z	"	Stud	2
120	SBSB2006Z	Tapping Screw	REC/PB Head	1
121	SBSB2008Z	"	E. Head	1
122	SBSB2606Z	"	Button Spring, Push Button Plate, Arm Stopper, Pause SW	4
123	SBSB2608Z	"	Flywheel Bracket, Reel Disk Bracket, Motor Switch	5
124	SBSB2610Z	"	Reel Disk Bracket	1
125	SDSP2608Z	Screw	Push Bar Case	3
126	SPSP2008Z	"	Pause Bar Guide	1
127	SPSP2604Z	"	Cam Guide Bracket, Kick Arm	3
129	SPSX2012Z	"	REC/PB Head, E. Head	2
130	SSSP2004Z	"	Capstan Metal	3
131	SSSP3008ZS	"	Counter	1
135	REE2500	"E" ring	Pinch Roller Ass'y, Select Lever	3
140	VKL4244-001	Select Lever		1
141	VKW3000–014	Spring	Select Lever ~ Guide Bracket	1

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
54	*VJT3021-001	Cassette Door		1
55	VJT3020-001	Door Plate		1
56	*VJZ4010-001	Cement Sheet		1
57	*E10250-001	Side Panel	Right	1
58	*E10250-002	"	Left	1
59	*VKL1113-001	Metal Cover		1
60	*E65462-001	Special Screw		4
61	*VKL1111-001	Bottom Cover		1
62	*VJK3108-001	Finder		1
63	*VJD3123-001	Finder Escutcheon		1
64	*VXS3001-001	Slide Knob		3
65	VYN2030-002GA	Name Plate	KD-S201A	1
	VYN2030-001GA	"	KD-S201B	1
	VYN2030-003GA	"	KD-S201C	1
	VYN2030-004GA	"	KD-S201E	1
	VYN2030-005GA	"	KD-S201J	1
	VYN2030-006GA	"	KD-S201U	1
66	E48729-002	Plastic Rivet		2
67	*VKL1110-001	Chassis Base		1
68	E47227-005	Foot Ass'y		4
69	*VKL2112-002	Volume Bracket		1
70	QVZ6103-003	V. Resistor	VR101, 201 50 kΩ (A)	1
71	QVS9C7A-014A	V. Resistor	VR302, 402 10 kΩ (A)	1
72	*VKL2111-002	Meter Bracket		1
73	*VKL3139-002	Lamp Cover		2
74	QMG1121-003	Lamp Holder		2
75	QLP4101-007	Lamp	PL101, 201	2
76	VKZ4001-010	Wire Holder	for M. Bracket, D.P. Bracket	2
77	VTP54C5-011	Power Transformer	KD-S201A/E ⚠	1
	VTP54C5-011BS	"	KD-S201B ⚠	1
	VTP54A5-011K	"	KD-S201C/J ⚠	1
	VTP54U5-011	"	KD-S201U ⚠	1
78	VKZ4001-010	Wire Holder		6
79	*VKL3144	Jack Bracket	for Mic. & H.P. Jacks	1
80	TAW000504-01	Wire Connector	KD-S201C/J/U ⚠	2
81	T47047-001	Capacitor Boot	KD-S201J/U ⚠	1
82	*VKL1112-001	Rear Panel	KD-S201A/B/E/U	1
	*VKL1112-002	"	KD-S201C/J	1
83	QFA72BM-223	MP Capacitor	KD-S201C ⚠	1
	QFH72BM-223	M.M. Capacitor	KD-S201J ⚠	1
	QFH53AM-223	"	KD-S201U ⚠	1
84	*VKL3144-001	Switch Bracket	for Power SW S1	1
85	QSP2111-011	Push Switch	" KD-S201A/E ⚠	1
	QSP2111-011BS	"	" KD-S201B ⚠	1
	QSP1110-222	"	" KD-S201C/J ⚠	1
	QSP1110-221	"	" KD-S201U ⚠	1
86	QMP2500-200	Power Cord with Plug	KD-S201A ⚠	1
	QMP9017-007BS	Power Cord	KD-S201B ⚠	1
	QMP1200-224	Power Cord with Plug	KD-S201C/J UL/CSA ⚠	1
	QMP3900-224	"	KD-S201E ⚠	1
	QMP7600-183	"	KD-S201U ⚠	1
87	QHS3876-162	Strain Relief	KD-S201A/C/E/J/U ⚠	1
	QHS3876-162BS	"	KD-S201B ⚠	1
88	QSS2325-006	Slide Switch	for Voltage Selector KD-S201A/E ⚠	1
	QSS2325-006BS	"	" KD-S201B ⚠	1
	QSR0084-001	Voltage Select Switch	" KD-S201U ⚠	1

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
89	VKL4275-001	Bracket	for Voltage Selector, KD-S201U	1
90	TAJ27130-02	Jack Ass'y	for PIN & DIN	1
91	E48729-001	Plastic Rivet	"	6
92	VKZ4001-011	Wire Holder	KD-S201A/B/E/U	1
93	T30483-00C	Switch Ass'y	Muting Switch, S9	1
94	51739-2	Lug		3
95	*VKL4281-00A	REC Bracket Ass'y		1
96	*VKL3137-001	D.P. Bracket		1
97	*VKL3138-001	Switch Bar	for Power	1
98	VKH4150-001	Shaft		1
99	*VYTA424-001	LED Cover		1
100	VYH4218-001	LED Holder		1
101	VKL4298-001	Button Holder		1
102	VKL4297-001	Shaft Holder		2
103	VKZ4117-001	Button Ring		4
104	VKZ4117-002	"		2
105	*VKL4304-001	Earth Holder		1
106	*VYTN411-001	Shield Plate	for Power Transformer Primary Wires	1
107	*VYTN412-001	Shield Plate	for VR side	1
108	LPSP3004ZS	Screw	for Cassette Holder x 3, Reset Lever x 1	4
109	LPSP3008ZS	Screw	for Earth Holder	1
110	Q03093-101	Washer	for Special Screw (ϕ3.2 x ϕ10 x 0.3)	4
111	NTB3000S	Nut	KD-S201A/B/E	2
112	REE2000	"E" Ring	for Brake Drum x 1, Brake Arm x 1, Lever Ass'y x 1	3
113	REE3000	"E" Ring	for Eject, REC Arm (1), (2)	3
114	WNS2600Z	Washer	for Brake Drum	1
115	Q03093-119	"	for Side (ϕ5.4 x ϕ7.2 x 0.2)	8
116	Q03091-110	"	for Push Switch x 1, for Shaft x 2	2
117	Q03093-503	"	for Push Switch x 4, Power Switch Bar x 1	5
118	Q03093-524	"		1
119	DPSP3006ZS	Screw	for Jack Bracket x 2, Lamp Cover x 4	6
120	LPSP4006ZS	"	for Power Transformer	2
121	LPSP2605Z	"	Head P.W.B. + Bracket x 2 for Muting Switch x 2	4
122	LPSP2606Z	"	for Rack Plate	1
123	LPSP3006ZS	"	for Mecha. Ass'y x 2, for Meter Bracket x 2, for Volume Bracket x 5, for Switch Bracket x 3, for VR101, 201 x 4, for VR302, 402 x 2, for Power Switch x 2	20
124	LPSP3006RS	"	for Voltage Selector (KD-S201U)	2
125	SPSP3014ZS	"	for Foot	4
126	SBSB2606Z	Tapping Screw	VKY4132	2
127	SBSB3005Z	"	for Reset Lever x 1, for Wire Holder x 5, for Earth Lug x 2, for Shield Plate x 3	11
128	SBSB3006N	"	for Rear Panel	3

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
129	SBSB3006V	Tapping Screw	for Main Amp. P.W. Board x 8 for Power Supply P.W.Board x 4	12
130	SBSB3006Z	"	for Shield Plate x 1, Bracket x 2, Spring Bracket x 6, Rear x 3, Bottom Cover x 3, Meter Bracket x 2, Lamp Holder x 2, Rear Panel x 4, Switch Bracket x 1, REC Bracket x 2, D.P. Bracket x 1	27
131	SBSB3008Z	"	for Front Panel x 5, Back Light x 1, Push Switch x 1, Shaft x 2, Peak P.W. Board x 2, Indicator P.W. Board x 1, Fitting (L) x 3, Fitting (R) x 2	17
132	SDBP2606N	Screw	for Lever Ass'y x 1, Cassette Door x 2	3
133	SDBP3008MS	"	for Finder	3
134	SDBP3006RS	"	for Mecha. Ass'y x 2, Voltage Selector x 2 (KD-S201U)	4
135	SDBP3008RS	"	for Voltage Selector (KD-S201A/B/E)	2
136	SDBP4012MS	"	for Side	8
137	SPSP3004ZS	"	for Eject	1
138	SSSP3006ZS	"	for Front Panel	3
139	WSB4000N	Washer	for Power Transformer	1
140	WSS3000B	"	for Foot	4

Packing



Packing Material Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1–2	VPA3031-00A	Packing Case Ass'y	KD-S201A/B/E/J/U	1 set
	VPA3031-00B	"	KD-S201C	1 set
1	VPA3031-001	Case	KD-S201A/B/E/J/U	1
	VPA3031-003	"	KD-S201C	1
2	VPH2112-001	Cushion		2
	VPE3001-002	Envelope	for Deck	1
	AP4056A-036	"	for Pin Cord, Power Cord	2
	QPGB024-03404	Poly Bag	for Instruction Book	1
	TKS000501-05	Sheet		1

Accessories

Parts No.	Parts Name	Remarks	Q'ty
VMP0002-00A	Pin Cord Ass'y	KD-S201A/C/J/U	2
CN-201	DIN Cord Ass'y	KD-S201B/E	1
T47796-00B	Head Cleaning Stick		2
AP4056A-024	Envelope	H.C. Stick	1
TLT000429-01	Caution Card		1
TLJ000477-02	Super ANRS Seal		1
TLJ000476-02	ANRS Seal		1
VNN0020-301	Instruction Book		1
TLT052401-01BS	Warning Label	Disconnect KD-S201B	1
TLT052401-01	"	" KD-S201A/E	1
QZL1002-003BS	"	Power Cord KD-S201B	1
BT20013B	Guarantee Certification	" KD-S201B	1
TJL000443-01	Seal	(Made in Japan) KD-S201B	1
T46328-003	Caution Card	KD-S201A/B	1
BT20029	Warranty Card	KD-S201A	1
TLT000505-01	UL/CSA Caution Label	for Bottom KD-S201C/J	1
BT20025B	Warranty Card	KD-S201C	1
T44362-001	CSA Marker	KD-S201C	1
TLT279401-01	Caution Card	for P. Cord France, KD-S201E	1
T46328-004	"	for Voltage Selector, KD-S201E	1
BT20032	Warranty Card	KD-S201J/U	1
BT20024B	Special Reply Card	"	1
BT20023	Service Procedure	"	1
T46328-001	Caution Card	KD-S201U	1
E7795-1	EP Mark	for PX, KD-S201U	1
V04062-001	Simens Plug	KD-S201U	1

JVC
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Priented
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